

343

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (399)
 <223> n equals a,t,g, or c

<400> 482
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 cgagagtttg tggaagatgg cgcctgttgt gacagggaaa tttggtgagc ggcctccacc 120
 taaacgactt actagggaag ctatgcgaaa ttatttataa gagcgagggg atcaaacagt 180
 acttattctt catgcaaaag ttgcacagaa gtcatatgga aatgaaaaaa ggtttttttg 240
 cccacctcct tgtgtatatc ttatgggcag yggatggaag aaaaaaaaaa aacaaatgga 300
 acgcgatggg tgttctgaac aagagtctca accgtgtgca tttattgggr taggaaatag 360
 tgaccaagaa atgcagcagc taaacttggg aaggaaagna ctattgcaca gccaaacmtt 420
 gtatatatct grctcagcca gcgaagactt tcatgttgtc tgtaaagtgt tct 473

<210> 483
 <211> 851
 <212> DNA
 <213> Homo sapiens

<400> 483
 ggaactcagt aacgccttga gctgggttga ttgaggatgt gtgaaaagct cacagagccc 60
 gatgcctgct gctatttcac ggcaatgagc ctttttcttt ctacactgaa gattttcttc 120
 ttattttaatg tggtttattt tgggctcaga aataattgct ctggtgaaaa taatcctttg 180
 tcagaaaaga aggtagctac cacatcattt tgaaaggacc atgagcaact ataagcaaag 240
 ccataagaag tggtttgatc gatataattag gggtagctct tgattttgtt aacattaaga 300
 taaggtgact ttttccccct gcttttagga ttaaaatcaa agatacttct atatttttat 360
 cactatagat catagttatt atacaatgta gtgagtcctg catgggtact cgatgtgtaa 420
 tgaaacctga aataataaga taataagaaa agcaataatt ttctaaagct gtgctgtcgg 480
 tgatacagag atgatactca aattataata aaactcttca ttttgtgaat tatagaagct 540
 actttttata aagccatatt tttttaggga aactaaggag tgacatagaa ctgatgaatg 600
 agyaaaagta agttttgctg gattttttgta gaactctgga cgttgaggat tcattatgct 660
 gtggttaact ttaaataattt ttgaattcca aatatctgaa ttaatgagcc ttgtctttac 720
 aaatatgtgc cattgtgcaa catcgggtgga ttttctaaaa ataatgtaaa tgtcttctat 780
 taaatgttga gtgcaataaa atacagaaga attctcaaaa aaaaaaaaaa aaaaagatct 840
 ttaattaagc g 851

<210> 484
 <211> 1500
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1430)
 <223> n equals a,t,g, or c

<220>

344

<221> misc feature
 <222> (1451)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1454)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1457)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1499)
 <223> n equals a,t,g, or c

<400> 484
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 atactttcaa tggaaacaga tttgcactcc gtttgacagc cattttcctc caaccactcg 180
 ggaaactcgt agtaagagca ttacatgggc cctggaatac tgattcgccg gataatttgg 240
 aagaagtga gtttttactt catatgtggg tagctctgtt ttacagcaat cagaacaaaa 300
 tcatacgcgt ttccccgaaag gttgtagaac acagcaaccc agcaaaatat gtgtctataa 360
 atagcacgtt agaactcttg gagctccgtg aaattgagga gtcccttggg ttggaaaaaat 420
 gttctgcaga ctctctgttg gagactaacg aaatttccag ggctcatgct gctgaagtat 480
 ccttccgtga tcctaactgc ttgcttccct tcattaaaaac accacttacc caaggcttgg 540
 aactctgtgt acaaaatgaa cagaaaaaaa cttttgcaag agagtgtgat ccagacaccc 600
 aagaagacca gaatttcacg tgttcttaca ataatgaggt aactggggaa gaagctaaac 660
 aagaatcatt ggagacttct aatcttgtgc tttcgggtat tggaaagtaca caaactaatg 720
 gaccttctgt tcctagtga gaagaaattg ttcagccact ggatagcaca agagtggctt 780
 cttacagtgg cactgttact caagccacat tcaccaggac ttacgatggg cctggcagtc 840
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 aaggtgtaaa tactgctgat gaacctacaa cctttaagaa ggagttgatt aagcaagtat 1140
 cacctgctgc aagccttaga catcctgtat ccacctcgga aaatgcacga acacaaggcc 1200
 tgaggacat tccctctcta gtagttgcag gacagaaggg cactaagtac ctttgtgcct 1260
 cgtcagtagg tggagagaca cttgataaag cagtgtgttc attacagaag gagacgcccc 1320
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 gttctagtca tctatcacc agtgaagaar tgagatgcac tcaggatttn ctttyacaga 1440
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<210> 485
 <211> 491
 <212> DNA
 <213> Homo sapiens

345

<220>
 <221> misc feature
 <222> (452)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (453)
 <223> n equals a,t,g, or c

<400> 485
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 ccctgcctac ctccctgcctg tccccagagg ctgaggakag ggggtactgt gcccaccaca 180
 catrattagg cctcagaccc aactctggtc ctggctccac aacagtggct gccactcact 240
 ttgtccagaa ggtggccttg ggggtggatat ctttgggttg ctggaaaagg tgtgggaagg 300
 ttccaggatgg tgggagggac tgaggctcct gaggtgaaga ggcccttggc cctgacgggt 360
 ttgaccctgt cctggaccct tggagcagtg ttgtgtgaac ttgcctagaa ctctgccttc 420
 tccgttgtca ataaagcctc cccctcatga cnnaaaaaaaa aaaaaaaaaa aaaaaaaaaa 480
 agtcgtatcg a 491

<210> 486
 <211> 1317
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1310)
 <223> n equals a,t,g, or c

<400> 486
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 aaaaagtgtc ttttgaaaat gttgaggttg aaatgatggg aaccaacatt ctttggattt 120
 agtggggagc ataatagcaa acacccccctt ggttcgcaca tgtacaggaa tgggaccag 180
 ttgggggcaca gccatggact tccccgccct ggaatgtgtg gtgcaaagtg gggccagggc 240
 ccagacccaa gaggagaggg tgggtccgcag acaccccggtg atgtcagcat ccccgacct 300
 gccttcttggc ggcacctccc ggggtgctgtg ttgagtcagc aggcattgggg tgagagcctg 360
 gtatatgtctg ggaacagggg gcaggggcca agcgttcctc cttcagcctt gacttggggc 420
 atgcaccccc tctcccccaa acacaaaaca gcacttctcc agtatgggtg caggacaggt 480
 gtcccttcag tctcttgggt atgacctcaa gtccactctg ggccctgcag cccagcctgt 540
 gttgtaacct ctgcgtcctc aagaccacac ctggaagatt cttcttccct ttgaaggaga 600
 atcatcattg ttgctttatc acttctaaga cattttgtac ggcacggaca agttaaacag 660
 aatgtgcttc cctccctggg gtctcacacg ctcccacgag aatgccacag gggccgtgcr 720
 ctgggcaggc ttctctgtag aaccccaggg gcttcggccc agaccacagc gtcttgcctt 780
 gagcctagag caggaggtcc cgaacttctg cattcacaga ccacctccac aattgttata 840
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 atttattaac ggcgcaactt atcccttagt agggtaattt agctgcactg gcgcgtttca 1080
 cgcgtactgg aaacttgcgt accactatgc tgagaatcct tcgcactgta atcgagagcc 1140

346

gcgatgcctg acagtgcctg atggatgcgc cttagcgtac gggtttgtgt gcggacgaat 1200
 cactaggcct tgtccttttg aagggggctc gggagggggg gtgttccaaa aatgggcca 1260
 atttggcgct agttaaacac gtttgtgggg aaaagcaaag ggggttatan aagtttc 1317

<210> 487

<211> 944

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (932)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (942)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (944)

<223> n equals a,t,g, or c

<400> 487

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 gtgtgtctgac ttcttgggggt cctcaaacca ctgtattttt ctggtgagcc tgtacttggg 120
 gagagatcag tagcatttga ggaagtaaga gaaaagaatc atggtacctc agggtttctt 180
 tccctttact cgctggcagc cattgtctgt gggcacctca tgtttttcca cactctactg 240
 ggccgtggag gtaacgatca cccaggccag tctcctctgc ctgggatgcg cctcttgaga 300
 ggaggcctag cagggcaggc tccctctggg catccctgga tgcagcctct ggacacatgc 360
 ctccctttaa gtgtccgggt gcagctcagg ttgagtggag gtagaaggag aaacagacat 420
 gtttaccacg cgttttccaa agctcctgat ctttcccaag attgtaactg aaaactgctg 480
 tctcttgttt tgttcgtttt ggggggtgggt gtgctggctg ggccatgctt gtgaagtgat 540
 gtgtgtctct gatttaacgg attcactgtt ttctctgcta attgagagag cgttatttac 600
 attatttatt tgttttgaca caagtgcttt cagtgtttta tcctagctaa tggtctctta 660
 aaggtaataa aacccttcca acgtaattgg tcagataaaa ctttttttct tgtatgctta 720
 aataaagcaa ttagtgaagc acttctatcc aaaatgactt ttttgtcctt ttttaaaacc 780
 aatttactgt tactggaaac tttttgtaca ataaagcaat cacgcagatt aaagaaaaaa 840
 aaaaaaaaaa aaaaaaaaaa aaggggcgcc gctctagagg atccaagctt acgtacgcgt 900
 gcatgcgacg tcatagctct tctactacgt gnaccctaac tncn 944

<210> 488

<211> 1677

<212> DNA

<213> Homo sapiens

<400> 488

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 ggaagacact ccaggcccta ctgagcgggtg tgaacaagta ctccacagcg ttcgggcgca 120
 tctggctgtc cgtgggtgttc gtcttccggg tgctgggtata cgtgggtggct gcagagcgcg 180

347

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tgtgggggga tgagcagaag gactttgact gcaacaccaa gcagcccggc tgcaccaacg 240
tctgctacga caactacttc cccatctcca acatccgcct ctgggcccctg cagctcatct 300
tcgtcacatg cccctcgtg ctgggtcatcc tgcacgtggc ctaccgtgag gagcgggagc 360
gccggcaccg ccagaaacac ggggaccagt gcgccaagct gtacgacaac gcaggcaasa 420
agcacggagg cctgtggtgg acctacctgt tcagcctcat cttcaagctc atcattgagt 480
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agaagaaaat cttcacctac ttcatggtgg gcgcctccgc cgtctgcac gtactcacca 660
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cctgaggaca taatgtgtaa gagagggtgag aagtgtccc aagcagacac aacagcagca 1260
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tcagcctcag gcagtgggtg tcccatcttc ctcgcccaaa ctgtgtcag gctgggtgcca 1560
gcctttcaga ccctgtctcc agggacttgg gtggatgcgc tgatagaaca tcctcaagac 1620
agtttcttgg aatatcaata atactgtgtt ttataaaaaa aaaaaaaaaa aaaaaaa 1677

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<210> 489

<211> 1640

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (680)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (695)

<223> n equals a,t,g, or c

<400> 489

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agagaccttt tatactgttt tattgcctgt ttgaagaaat aattttttatc acgtttttgt 120
aagatatcta taatttttaa tgttttataa ttgttttaatt tattagcatc ttaatgtacc 180
ccatttttat atactgaatg tggccttttg agtgaaatag gaagcttcat ggtgttggag 240
ccacctttgt acagttgttt aaagtttccc attgtcacgg aaaacatttg ytgcaaagcc 300
cctcaaagcc ctcaagtgcc ttctgtgagt ttaaagtgtc tgggtgccctc cagaaaagcc 360
tcggcctcag ctcggtttcc gcctgttccc tccccagga taatgaatgg ttactgcaact 420
gtaaagaccg tgggtctctt tcaactaaata ggagattcga gtttcccagt ttacatgaat 480
gaagtctgaa ttaagacgg tgatgaaact gaggttcagt actctcgga ctcgaggaaa 540

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348

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ttatttcctga gacatggagt aattcttaca aattttaaact attgtacaga tccacataca 600
tggttgtaaag tacctaattgt ttgtctgaac tttttaaaggt taatttccaa aatgtatagg 660
gattcatgat aattaaaccn tttttattgc tcatnttttt agtagaagaa tatcacttat 720
tttttagactt gtaaaatgta tgractgggtg agcggacatc tgtaagaga gtcactagtc 780
agaatgttaa aggagtgcac gcaggatgcc ccaaagtgcg tgaactcttg ttactcctgt 840
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cctgattcca aacagggtgtg gagaatattg aacggctcag aagccgcgct ccttacttaa 960
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atgtccacag ggggacctgc ctcccgatg gtcccacctt tccttcaagg tctgtcatat 1260
gagtcctccc cttttacaac acttattatg gtatttttca agttattctt cttagatttg 1320
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awttagatat ttaagtcact tgtccaatga tgtgtatgtc taagcctcat gtaccgattt 1440
gaagtcagac ttaaaaaatgt atttacagat tcacttgaga ctttttaatc ggttcttcaa 1500
atattttcatg tttacattaa aaatttccag agaagcataa aagtattcac tttcctgcct 1560
tgtcatttct ggaaaagattt tggggagata ttttattgca tattaattaa taaattgttc 1620
tactaggaaa aaaaaaaaaa 1640

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<210> 490

<211> 637

<212> DNA

<213> Homo sapiens

<400> 490

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tttttggggg ctgggggattg artcttgctg ctctgcccag ccctgttcta ttctgcargg 120
tccctgtgtt ggaattctcc ctggggaacc tactttctgc tcagtgargc tccggccaga 180
aacctggagt ccttatcctc ccctctgtaa gtgttttagg gtctggcttt tgcaggcacc 240
ctctgacctc agcagagctc ctgggcctgc tgctgcaca ccacatcgcc tacctacaat 300
gccaaaagcct cactgtcacc ctttctgcct tggtttccct agctgagcca cgctgcccac 360
gcagcagagg gcagaaggct tgcacttggg ccaaagggcc taagggtccac tggacagttg 420
ggaaaacacc tgaccaccat ttaaggactc taagccagaa tggaaaattc accaggactc 480
cattcttaag cctatgcgag tcccctagag agaggcattg tactgatata taaatattat 540
ataatatata catgagacat actgacagaa tctgtaagct aataaaatgt aagaaaaggt 600
taaaaaaaga ataggtaaat tgacaagaag taaaaaaa 637

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<210> 491

<211> 464

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (338)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (397)

349

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (438)

<223> n equals a,t,g, or c

<400> 491

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cctgggtatta aggagaatca actctctgga taaacgtggg aaatatggcc catagtccca 180
tcttttttaca ggcatttttt acacctggag cagccagagg acgcatgcat ggctcttcgg 240
aaggtaattht agggatcacc catgtaagtt tcctaaggat ttctttaaca tggttcttct 300
gattcagttc ggccaattaa atctgaaatc cacccttnga aagccatctg gtgtggataa 360
caaggcccac aaattgaggc agttcagctt tttgtgnctt tttaggcytg ggacaaccac 420
gggatcttaa aggggggngg ggaactagga ggtttttgag ttcc 464

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<210> 492

<211> 777

<212> DNA

<213> Homo sapiens

<400> 492

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gaacacctaa gtccctgggtc tggataatga aaccctcagt ctctggggcc tctgaaaata 120
aggaagcatt ggagctattg ccatgttgag tartgggctt cctagaacta ttgtcatcta 180
tcctgccagt gttttatgtt gtagctgttt ttctttgaca ggtgagttcc agctatgttg 240
ttagtcatga tcctgccatt attttctgtg ttctgtagga tgtctccagg ctacttaaac 300
atattttatg agtttgcaat aaaattgttg aatcttgtat gatcaagtca ctctctgtct 360
cagaaatcca cagtgacttc ttagtaagcc cctacattat atgcatactt gtttttttct 420
taactttact cccacttcta cctaacaggg acctcaactt aagtctcttc agttcttcaa 480
ggcctggcct tgttcctgat tcctcaaaaa atcttgactc taaggcctat tttattgtct 540
gtctctgaat ccctataaag cttcaagtct gtatgacatt cttaacgcca aattatata 600
tgtcttgtag tgttcctagc tggtagatgt atattagtct tgtctccctc atgagaatgt 660
aagctcctta agggcagggg ccatgtctta atttttgtat ccaccacagg cctagcacag 720
tgcttggcac atgggtgctg aataaatacc tttgtttatt gatcarmaaa aaaaaaa 777

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<210> 493

<211> 564

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (510)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (522)

<223> n equals a,t,g, or c

350

<400> 493

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tccaagctcg aattcacctc actaaaggga acaaaagctg gagctccacc gcggtggcgg 60
ccgctctaga actagtggat cccccgggct gcaggaattc ggcacgagat taataaaaca 120
gaggagtaca ttttaccctt gcaattccag tcaatactgt ggtgtcattt cagccaacat 180
accaacattc agtcaaattc caaagccaaa tggataattt cagatggaat ggagttagac 240
aggaactggc ttccctttct cctgttacta tgaggacaac ccacacctgc tcagtggcct 300
aaaatatatt aaatatgttc atgacaatta tgctgagaat gccaggataa crctgatgga 360
acccatgact tcaccaggat tgtgggtctac atttacaggc ctagtactag aactagaccg 420
gcttagagag tgggagatat cctctgttg tccatcgaaa agataaaaat acaggctttc 480
agccggtgtg cagtgggtgca tgcctttggn ccccgctac tnaagggggc tgagaatggg 540
ggaatccttt ttgagcccca gaaa 564

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<210> 494

<211> 773

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (283)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (734)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (762)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (768)

<223> n equals a,t,g, or c

<400> 494

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cctgcctttt tgttataaat attatcatgg catgaaacaa aaagcctgtt atctgccttt 180
ccatgatcac tttgctgaca ctgtttcagc cacaagtaaa cctagcaact ctatgaatag 240
caggacagac ttgaatgtgg tgtgtgtgca aggaagtatt ttnaactttc ttaatcttaa 300
atgccaccag aaaacattct gctccctgtt acttcttttt tttttttttt aaattacttt 360
gttttgccgt aaggagttgg ggaatgtgtg gtggcaggga agtaatgtaa gttgctttat 420
aactcactgt ctaacaaaagt tttgaaaatt tgtctgatat gtaattaggt acttttaggg 480
tattaggttt tcataaaaaat tctggttagg gctcttgccct gctcccaatg aaagcctttc 540
cacagggcaa atataaaaaga gagagtagag ggaawycccc tgagggttaa atamgtcaaa 600
ccagtaagta atagtgtctaa gtttgtcagt gcctctcttt cttactgtac ttaacatcta 660
aaggggcacc tcatttattt tcaggctaata tatgttcttt atgggggtgac tgtccaatca 720

```

351

ggggaggggt gttnacggtc cagtggggag ataccctttt cntaattnat agc 773

<210> 495

<211> 723

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (597)

<223> n equals a,t,g, or c

<400> 495

```
gtcctagtga agaggaaggc ctgtgtagca gaaaggcttt gggcctgaga ggttaaggcc 60
acagctgttg acacctgttt tggtcctgcg accctttact ggtctccgct ggctttgaat 120
cttcctctgg gctctactct ggagaacata agggctgctg tggttgagtc tggctagcac 180
tgtctgtggg tggcagtgtg tacacccttc cgttcagttc cttgggggta tttttcagaa 240
atccaaaggc aacccttcgt gcagtgtcga cttttttaag tacagttgat tacccttgcc 300
tgctgggggg cctagscatg ggccagagat ggaggagccc cagtggctga caggscagcc 360
tactcaggc acgtacctgc tgaccagtca gccactgcc acccatggcc cagccactgt 420
gtgcattagc agggagggtt gtaggscatg gaggaaatga ggagacacca ctagtggag 480
acattggggc cctgytgggg ggatggtgtc tatagstggy tctgctggct cctcaggcc 540
ctgcttacca agctctggag gaggggagtg ctgcattact gagcaccttc cttgttnttt 600
cctcatagga cactgatgtt actgtcactt tagttatgct aaagtggagg tttcagcctc 660
cagaaggaca gcagagcctt ctagggtcac cttagaataa ggttttagct aggctggggg 720
ttt 723
```

<210> 496

<211> 445

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (366)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (388)

<223> n equals a,t,g, or c

<400> 496

```
ggtctctaaa tgatgaaaaa agaaatcatt ctcagaagga gaaaagattg tatggggttg 60
gcctctccat atcttagcca attatgttgc tattttcatg gcttcagtta tcaaaacatt 120
actgctgggt agcagggtct tagttctcga cagccttcac agtgcacatc tcttgaagtc 180
acatgagagc tctttggaaa gttgaaatta gaggcattct atatttactg ggkctgaatt 240
tgkccctgac tactmatgga gtagaaaatg acccattttg cctacattga gtaggctgaa 300
ggaatttgca wttctccact cttgtgaggg ttacacctaa tttattttaa atagaacaag 360
ttcttnatgc ttaggggttaa gcctttanaa atggaaaatc tcgatattca tctctctatc 420
ttgataaaaag tcagccaggc cattt 445
```

352

<210> 497
 <211> 617
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (525)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (603)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (617)
 <223> n equals a,t,g, or c

<400> 497
 gcagggacag cacatgggaa agcccccattgg ctttgtgata catctgggga tgtgatccat 60
 ttgggtaagg acttgggttt cagggcatga gttggcttcc ttgcaggatg caggteetta 120
 ggtgggtggc ctctgtctcc agctgtaggg ccctgccagg aagcctctat atgagcctac 180
 ctccctcctg caggaccaga gaggggttgt tatgaacagc ccaggggatt ggttgacta 240
 agcttgtctt gaagcttttg ctggggagtc caggtgccc a tgtctctcac ctgctcccca 300
 tacacatctc tgcacacctg gctgaggcat tcccagacct aacctcagat aatgtgcatg 360
 tgatgaacac tcccagtggt ctaggcctct tgcacctgag caggtggatt ctgccccagc 420
 actggggctt tctctgggct gtccatcatg ggtatatctc tggattccag gattgctagt 480
 tagcacctca cttttgaggg tctgtgctat tcartctara atcanaattg gatgaaaaat 540
 caactttgac accacctttg ggggtggctgs attggcttwa cacctgkaat cttaacactt 600
 tangaagctt aagccan 617

<210> 498
 <211> 1189
 <212> DNA
 <213> Homo sapiens

<400> 498
 actactagag aaaaaccaac tggcagtttg ctaagcatat ctactgggtgt tgtttctgcg 60
 ccctcttttg gctaattgat gtaattatac tggctctaaa gatttactgc cccataagta 120
 aatagtatag ccacattctg aacatatcaa aagtacaaac ttaggaggag tgtatgtaca 180
 aaaatgtaaa attttatgaa aatgaacatg tttttatgat gttatttcta gttcataaga 240
 atgtgatgac tgctttgctt catttatgta cgttcccat atattcttgc tgtcaatcaa 300
 tcacaaattt atatcagatt aggataaact aagccatttt atgtatttta ttttaaacct 360
 tattttggca gagtaattcc ttagaatttg aaaagctgtt actttgaaat taccaattta 420
 ttacaaaaca tagaaatgta ttgkagctac aaagacaacc aagcattttc tgtgttttaa 480
 tgaatatcta aaaaactaca tttagtttat tttactcagt tttgaaatga tttttttact 540
 ggctctattg ccttaaaata actaagagat taatgattct ttgtataatt ttccttttct 600
 ttgttctttt tttaccattt cgcagagtta tatctatagt tttagtaaca atttcttatg 660

353

```

tattctggat aactgaaaac aactaaaggt gttgggcrtt agaaaataat tgtgagcagt 720
aagattactg atgtaatatg tatgttggac tgaagtattt ctttataaac attctatttg 780
attttaagca aaatgtatgt taaagcatgt ttttacatca gtaaagtcac ttgtcgacct 840
tctggaaatg aaagggtttt acctagatac tgtaagttac acctccttaa caatcatatt 900
tgtcattgtt gttttctgca aacaaaaatg tttatgggct tcatgtaggc ttaagattgt 960
aggcaaaaat ggactgagtt caggaccctt caagcagtag gcattcagtt acagagcagt 1020
tgggtactttg taaccagac ttacagttta aaaatatcaa gttagctgat gtttcattat 1080
aataaaaata ctattttgct taagagttgt attacaaata tttgtgctta acattagaaa 1140
tagctgtttt aaattgtagt taacatatta actttttcag aaaaaaaaaa 1189

```

<210> 499

<211> 396

<212> DNA

<213> Homo sapiens

<400> 499

```

attaaatcaa atgatattga catattatga gggagaagaa gtcaatgctg gaaggattgg 60
gctaacgcta gtagtagctg gaatgggtgg ctctattctt tgtggcttat ggctggatta 120
tactaaaaca tacaacttct tcatgactgg ttacctcctt ttgggttttg aatttgctgt 180
tgaaatcact taccctgaat ctgaaggtag ttcactctgg cttcttaatg cttctgcaca 240
gatatttggg attytgttca cattggctca aggaaagctc acatcakact atggctcctaa 300
ggcagggaac atttwtctct gtgtctggat gtttatasgc atcatattaa cagcattaat 360
caagtctgat ctgcgagaca caacataaat atagga 396

```

<210> 500

<211> 1309

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (253)

<223> n equals a,t,g, or c

<400> 500

```

aaaatgtgcc agttccactt ggtaataacg ttgggaaaat gcaggtttat gaatgatgtg 60
gactttttaga ggatcaaate aataaattgg attttttatt ttttgagggc agctgcmtea 120
ctgtttttaa taaagaatct tacataagaa tgttgacaac attcacagta agccattgsa 180
gaaaattgat ctgcatgtcc tagaccaatg attacaaggt gtctgtgggt ctgtggttta 240
gggggcccag ccnatcattc cttttccctt tggcactcat gagagagatg ccaagttcag 300
tgtggatttt tcttggtgct ctatggagaa atggagtctg tgtgcttact gaagagtccc 360
aaaaascaga gaccattttc atttaytgcc atcataaata ttctccacca ttcaagatgc 420
ctgtgtacac ggctattttg gaaactwaag tgttgaggga ggcaggggct gaagggtgtca 480
aaacctcctc agtaggataa cccctttctc ccctttggac catctgccat ctttcatgag 540
tgtttcccat ggtgtttttg catccagagt tgacarcaac tcaattttgc cttgaattta 600
ctcagtctta taaattaaaa atgtgcattt tatataaaga tgcattttat ataaaaatgc 660
acacctttaa tctctatatg gcagcatata catatatata tataaaatgc acacttttaa 720
tctctatatg gcagcatttt tgaggcttta tatctgcccg tgtaccctca actgcctcyt 780
ttttgcagag aacgatcccc acaggaactg gtctaagaac actgtctgca catgattgat 840
gcttaaaatc caatatacca ccacatatca aaggktggga ttttcagagt ccttcttgat 900
ttctgagctg aaaccttaac aaatagggaa tttggcaggg aagacacctg gggtttttaat 960

```

354

```

tcagaaccct atttatatac tgttaaaatt tgaggtacta tagtttatat aaaagtcgga 1020
tgттааgata ttataatttca gtactaggag cttcttttgc gtcattaaca tgacaaatta 1080
agtaataaat ataaaagtga ttgtccataa attatcattg aattttttgt ttattttgta 1140
gtgtttctgta tttatctgca ctttgtgtat atatacacac atacatatgc caacatgtaa 1200
ataacctcat gtttattcct aatctaaatt gccmcaatat ttttaatgta tggttacact 1260
gtgtttttaaа ttacttttaaа aataaaacttt gtaagcagaa aaaaaaaaaа 1309

```

<210> 501

<211> 944

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (16)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (17)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (882)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (892)

<223> n equals a,t,g, or c

<400> 501

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aattcggcan nagggnncaa agcagttaga gttcagaggc cagcggctca gggccactcc 60
ctccctagcc ttcacagca gagcaccctc catccccctg cattgctctt ctgtgaaagc 120
aaataactaaa ggatgccatc ctctggaatc ctaatggcag gcaaagggag agaggaaggg 180
tgacggcttc tggcacttag aaaacaaaaа gaacaaaaаа agagaaaaccс ccaagcctgg 240
aacgcagaga ggtctttact gctgggatcc acggaaaaca tgtctgtcct agccaagatc 300
atatgaagag tttggcacgg aggctgagaa tgacctggca tagatggttt gccagttagg 360
atgtctcaat ttgagccttt gcttttgggtg gataactcag ctccccctctt gtaacctgga 420
aagttggttg cctttatcat cctgctgggtt ttatccatgg actgaacacc caacagcagt 480

```


355

```

gcactatgst ttctatggca tctttcattc tcattttata ttgtgctata aaaaggattg 540
tttctccata tatatatatt atatgtgtat atatataata tatatatgtr tatatatatt 600
atatatatat attatatata taatatatat ataaaaatata tatatatatg ctctctctct 660
tcagcctctt tgtcacaggg aaraagtgtg ggargttgcc ttgggcctgc ctctctccta 720
acctctctct cccactggg taccctcagc cctatatatt taattcttga tcatgtarga 780
aattgttttt gggtaaatgt tgatattatt gttattatca ttattaatta aataaagggg 840
aaaagggaat ttttgtttta aatgaggaaa tgtttaacca gnttctgttc tnttttggat 900
tgtggacttg gcaccttttg ttccaaggta tttcctttgg ggcc 944

```

<210> 502

<211> 664

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (106)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (148)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (628)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (631)

<223> n equals a,t,g, or c

<400> 502

```

ggcagagggtc agtagggatt taagataggg agaaaatgta gctcagggaa aatgtgtgca 60
gtacaaaaga ccataaaatt tttcagaaag cagcttggcc ctgtgnaagt tgaccagatt 120
gaaagtccca gaatcctggg ttccagtnca ctcatgaatg gcttttgggt aattcttcct 180
gtgcttcaat tcttctctct gtgtgaaatg ggtaacacct tatctgcctc cctgagatgt 240
catggaaata agcaaaaatta ggtcttaaaa ctacttggaa acctaaattg tgaaaattat 300
ctttatctct gttgtttctt agttaccagt ttaccagaag taacttaaca ctaggattct 360
ctgcyagtac taaaattaga ctctaccact ctgggctttc cttttctccc tcttgctttt 420
gttttccgggg cgtggaggag acatctgtgc tgctggaggt aataataaac taaagactaa 480
agaataactt ctcccactag aaaatactat tttcatccta cccacctgat caggctttta 540
aagaaggagc ccaaatctgc catggatttt gattatttga ttcactttkg gaaatgtgcc 600
tgaraaarcc tagggaatga gagaagtngg nataaatggg aatcttaaat ggtatagaaa 660
ccaa 664

```

<210> 503

<211> 602

<212> DNA

356

<213> Homo sapiens

<400> 503

```
gggtttttcgg ggggtggccc aagccagcct cgctctcggk gggggccatg gtgaggctgg 60
agcctgagga ccaagtgtgg gtgcagggtg gtgtgggtga ctacattggc atctatgcca 120
gcatcaagac agacagcacc ttctccggat ttctgggtga ctccgactgg cacagctccc 180
cagtctttgc ttagtgccca ctgcaaagtg agctcatgct ctcactccta gaaggagggg 240
gtgaggctga caaccaggtc atccaggagg gctggccccc ctggaatatt gtgaatgact 300
agggaggtgg ggtagagcac tctccgtcct gctgctggca aggaatggga acagtggctg 360
tctgcgatca ggtctggcag catggggcag tggctggatt tctgccaag accagaggag 420
tgtgctgtgc tggcaagtgt aagtccccca gttgctctgg tccaggagcc cacgggtgggg 480
tgctctcttc ctggctcctct gcttctctgg atcctcccca cccctcctg ctctggggc 540
cggccctttt ctcagagatc actcaataaa cctaagaacc ctcaaaaaaa aaaaaaaaag 600
gg 602
```

<210> 504

<211> 547

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (475)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (523)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (541)

<223> n equals a,t,g, or c

<400> 504

```
tcatgactga aaaggagctt tggaaatcac tgcataaggc ttgatttatt tgcacaactt 60
tcttttaggg tgcagctaga acaaacctgt gcgctttgaa atgttacctt ctgctctctg 120
ttccaagta cagagaaata atgttgcaaa tctcacttct gctgaacatt atgcttctctg 180
atgcatttag cagacactaa acatttgtca tactctaaac aaagttacaa aggactagaa 240
gaattcttgt tctgtattta gaaaccact cacattactt gatatttggg tatttaagtc 300
atgaaaggta tttcttctag gaagcagtga ttctaaagtg tatgcttaac cagtgcagttg 360
agtgtctact cttgtgtgtt cacaagtgtg ccaargtttt kggtaaatta agaataattat 420
ttcaataaaa ttaattcatc cccataggag ccagtttaca gataatccgt tctcntttct 480
ggcaatcata cacaatgaac tcatttccga ataaatataa tanttttcct tattttccacc 540
ntggtcc 547
```

<210> 505

<211> 2083

<212> DNA

<213> Homo sapiens

357

<400> 505

```

cgtccgattt actattctta aattataggg agctgtttgg ggaagaagat gctgatcaag 60
aagtatctcc tgacagagct gaccctgaag ctgcctggga accaacggaa gccgaagcca 120
gagctagagc atctaataaa gatggtgaca ttaaactgat ttctactaag gaatgggcta 180
aatcaactgg atatgatcca gttaaacttt ttaccaagct ttttaaagat gacatcaggt 240
atctgttgac aatggacaaa ctatggcgga aaaggaaacc tccagttccg ttggactggg 300
ctgaagtaca aagtcaagga gaagaaacga atgcatcaga tcaacagaat gaacccaggt 360
taggcctgaa agaccagcag gttctagatg taaagagcta tgcacgtctt ttttcaaaga 420
gcatcgagac tttgagagtt catttagcag aaaaggggga tggagctgag ctcatatggg 480
ataaggatga cccatctgca atggattttg tcacctctgc tgcaaaccctc aggatgcata 540
ttttcagtat gaatatgaag agtagatttg atatcaaatac aatggcagggg aacattattc 600
ctgctattgc tactactaat gcagtaattg ctgggttgat agtattggaa ggattgaaga 660
ttttatcagg aaaaatagac cagtgcagaa caattttttt gaataaacia ccaaacccaa 720
gaaagaagct tcttgtgcct tgtgcactgg atcctcccaa cccaatttgt tatgtatgtg 780
ccagcaagcc agaggtgact gtgcggctga atgtccataa agtgactgtt ctcaccttac 840
aagacaagat agtgaaagaa aaatttgcta tggtagcacc agatgtccaa attgaagatg 900
ggaaaggaac aatcctaata tcttccgaag agggagagac ggaagctaata aatcacaaga 960
agttgtcaga atttgaatt agaaatggca gccggcttca agcagatgac ttcctccagg 1020
actatacttt attgatcaac atccttcata gtgaagacct aggaaaggac gttgaatttg 1080
aagttgttgg tgatgccccg gaaaaagtgg ggcccaaaca agctgaagat gctgccaaaa 1140
gcataaccaa tggcagtgat gatggagctc agccctccac ctccacagct caagagcaag 1200
atgacgttct catagttgat tcggatgaag aagattcttc aaataatgcc gacgtcagtg 1260
aagaagagag aagccgcaag aggaaattag atgagaaaga gaatctcagt gcaaagaggt 1320
cacgtataga acagaaggaa gagcttgatg atgtcatagc attagattga acagaaatgc 1380
ctctaaacag aaccctctta ctatttagtt tatctgggca gaaccagatt gttatgtcct 1440
ttgttccaaa gggaaaaaat tgacagcagt gacttgaaaa tgattctgct ccctttgaaa 1500
gcattcattt tgctagaact gttagacaca ttgcagtatg ctgtattgaa agtaggaata 1560
tagtttttaa aaccctttga acaaagtgtg tgcataacca gtcatgagat aaaacaacac 1620
aatgcatggt gcctttttta tgtaaatacc cttaggtatc attaatagtt tcaaaatatt 1680
gtggttttagt aaagttgata cctgggtata aatattatgc ctttattttt ggctagaaga 1740
agaattattt ttagcctaga tctaaccatt ttcatactct taactgattg aaacagattc 1800
aaagaagtat cgagtgcata gcattgaaac ttgtttttta atgttagatg gcactatgta 1860
tattaatgta aaacaatgtt aattttactca agttttcagt ttgtaccgcc tggatgtctt 1920
gtgtaagaag ccaattttttg tgtattgtta cagtttcagg ttatttatat tcgatgtttt 1980
gtaaaactca aataacgact atacttatgg accaaataaa tggcatctgc attcttggtta 2040
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 2083

```

<210> 506

<211> 1234

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (118)

<223> n equals a,t,g, or c

<400> 506

```

agcctccctc ttccccatgg aacttacaat caagaagcat cttccaattt catgtacact 60
aaacctaggt ggccacaagc ttcatttggg ccatgaactc ctttgaaacc ctcataanaa 120

```

358

```

ctgtcctact atctccctgg taaatcgcac atacacagag ttttgccctt caggacatat 180
ggccttataa gattttgact actagtgacc aaaatggtga tgtttttcaa aaattacaca 240
gaattgttaa gatggaatag ttttattcag caaacaaaaa acttgctaata tcagagtata 300
ctctagtcca cgtaatgtgg ttttagactac atttgcaaaa ttagggcctt gacgctgaac 360
aaaataaaaat ccagaggaag aactacagta tccaatcaaa aaggaagtac tagcaaatga 420
accagaataa aagactttat tgtattccat acattcacag gtcacttcca gatttagtaa 480
caacactgca atgctatgat gctgtgcggg catttagctt aaaccacagt gtaagttggg 540
agctctctcc tgctctcttg gcctctagat gtatcacaat acaattccta actgtggcct 600
ggcaaccaat gcttatttca ttggattatt ttctgactgg gacatgagtt catcgcatct 660
tcccagaatt ttaaagtacc ttcccttaca ttataagaga tgaccaaaaca ctctagtgtg 720
arggctgctt cacacactgt tcttatctat catgattgct cttccttaca tacacgtccc 780
gtacagatca gctacacacg gcatggtcct gaaaccacag cttttgtttc tttggccaga 840
atgcaccctt cacttgagt gcccgccctt gaaacacagg tacttggttc tcacaggggtg 900
tgcatggttg acacaagttc atctgcccc aaggtaaaagc tcttcaaaac ctttgcata 960
cttggtggga gcagggtcac aatttggtgc atgtgacctg cctcagcctc aaaagataag 1020
agatcatgag gctccaccgc ccccgggctc agggaaacttg atccacatcg ctagggctct 1080
gcctgttagg ttatggatgc tcacctgact ctctgaagca gagggagggt gacacagatt 1140
agcttttatt gaaattatta aagtgcact ttgtgttttc actctatcag gcaactgaaa 1200
gcaagaagct ttttaatttt tcttttctat aatg 1234

```

<210> 507

<211> 646

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (619)

<223> n equals a,t,g, or c

<400> 507

```

gatacaggcg tgagccactg tgccsggcct tcttcttttca agttatatag aatggagcat 60
gggggtggca gtggctaggg acatttcctg gggacactct cccctaacc cccagaagga 120
cttcacaaaa acctgtggat aatggaaggg atgttacggg acaaacgtat atttatgtgt 180
gtgtgtgtgt atgtgtgtgc gcgcgcgcgt gtgcacatag gcgtgatgtc tgtgaccctc 240
ctctcctcgt cacatttccc ccagaatgaa tgctgtcctg tctgctcatg tttgtgttga 300
agctgccaaa gtcggggagc tctggtcctg cccagacccc tttggaattg ctggcccatc 360
ctcccactgg agagctgggg tgcagctcac cttggggaag gaaacctcat gcctcagagt 420
aatttcttgt gaatgcaaa cctggggggag cgggtctttg gggggcaagg agccagtcag 480
gggcttgttt cccctcatag agctccccag acgtgcctcc gcaatgcctg aaaccagac 540
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<210> 508

<211> 2257

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (838)

359

<223> n equals a,t,g, or c

<400> 508

```

ggatgattag gctgtgtgtg cgkgtgagaa tgatcacatg tggcgtcatg ctttgtacag 60
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gagtagagag gcagctgagg ccacaaccgt gtcttctctc tgaatggagc taactcggaa 420
ccccccgttt tctcttctct tctgcccacc actgaacatt gcctttttaga taactcagtg 480
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aactatctcc tttaaaaacg atgttctgta ggtttagtgt ctttgttcat ttccaaaaga 780
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ctaattatgg caattatgga tgtgaataag aatactgatg ctgtacaaat atttttgtgg 2160
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aaaattaaaa tatttactct ttggaaaaaa aaaaaaa 2257

```

<210> 509

<211> 701

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

360

<220>
 <221> misc feature
 <222> (34)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (600)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (637)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (647)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (676)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (691)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (700)
 <223> n equals a,t,g, or c

<400> 509
 ccccaaagng ggcccgccctg aaagggccct aggnagtaca cctcctagga accctaagcc 60
 agagagaggc ttactacat catgcttct gacatctct ccttttgaag agcagtcaga 120
 ctcttgcttt gctcttcaga cttaatttgg gggtttaaca ggtgaggttg ctgggggaac 180
 tcttttacaa catctctctg aaakaatccg ggctgccagt ttcatttggg ttgggtgtca 240
 gtagcatgat ggaaagacaa aaaaacacaa cttgacatct gcagaaatgg gttcaaattt 300
 tacctgcaac tcaccaattc tgtggccttg gttcagcaat taaactccct aaaattcagt 360
 tttttctttg taaaatgggg ttatgaacag tacctacttc aaaatgtgtt tgtgaagatt 420
 aaaaaagtta acataaagag ttaraagag tgtctggcaa aaaaaaaaaa aaaaaaaaaa 480
 aaaagggcgg ccgctctaga ggatccaagc ttacgtacgc gtgcatgcga cgtcatagct 540
 cttctatagt gtcacctaaa ttcaattcac tggcgcgtcg tttacaacgt cgtgactggn 600
 aaaaccctgg cgttacccaa ctttaatcgc cttgcancac atccccnttt cgccagctgg 660
 cgttaattag ctgaanaggc cccgcaccgg ntcggccttn c 701

<210> 510

361

<211> 345
 <212> DNA
 <213> Homo sapiens

<400> 510
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 tgagcattat ttgcatcatt gggatacata tgtcacttca caagatgttc aatttgaagg 120
 aaataccact cattctctat gtctgtttgt ctgtagtgtg cttcagtttt tcatattgag 180
 ttgacctaaa tcttggattc atgacaagaa aggagtaagt actactattc attgttctat 240
 ttgtttataa tctgtattat aaaattgcac ataattaaaa gctttccctt gtcttcaaaa 300
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 345

<210> 511
 <211> 967
 <212> DNA
 <213> Homo sapiens

<400> 511
 gacctgtcac tgcttccgc cgcttctgc ccgcgccatg acccakycgg tgccccggct 60
 ctccgtgccc gccgcgctgg ccctgggctc agccgcactg ggccgcgcct tcgccactgg 120
 cctcttccctg gggaggcgggt gccccccatg gcgaggccgg cgagagcagt gcctgcttcc 180
 ccccgaggac arccgcctgt ggcagtatct tctgagccgc tccatgcggg agcaccgggc 240
 gctgcgaagc ctgaggctgc tgaccctgga gcagccgcag ggggattcta tgatgacctg 300
 cgagcaggcc cagctcttgg ccaacctggc gcggctcatc caggccaaga aggcgctgga 360
 cctgggcacc ttcacgggct actccgccct ggccctggcc ctggcgctgc ccgcggacgg 420
 gcgcgtggtg acctgcgagg tggacgcgca gcccccgagg ctgggacggc ccctgtggag 480
 gcaggccgag gcggagcaca agatcgacct ccggctgaag cccgccttgg agaccctgga 540
 cgagctgctg gcggcgggcg aggcgggcac cttcgacgtg gccgtggtgg atgcggacaa 600
 ggagaactgc tccgcctact acgagcgctg cctgcagctg ctgcgacccg gaggcacctc 660
 cgccgtcctc agagtcctgt ggcgcgggaa ggtgctgcaa cctccgaaag gggacgtggc 720
 ggccgagtggt gtgcgaaacc taaacgaacg catccggcgg gacgtcaggg tctacatcag 780
 cctcctgccc ctgggcgatg gactcacctt ggcccttcaag atctagggct ggccccctagt 840
 gagtgggctc gagggagggt tgcctgggaa ccccgaggaat tgaccctgag ttttaaatc 900
 gaaaataaag tggggstggg acacacgaaa aaaaaaaaaa aaaaaaaaaa aaaaaagtc 960
 gtatcga 967

<210> 512
 <211> 532
 <212> DNA
 <213> Homo sapiens

<400> 512
 tactatcggg aaagctggta cgcttgcagg taccgggtccg gaattcccgg gtcgacccac 60
 gcgtccggct cccgggtcca ggcgagttcg cagctgcgcg ccgggtcctg gaggccgagg 120
 ccgctcccgcc ccgttgtccc cgcagtcccc gacgggagcg ccatggccca gccgcgcgcc 180
 gacgtggagg gggacgactg tctccccgcg taccgccacc tcttctgccc ggacctgctg 240
 cgggacaaaag tggccttcat cacaggaggc ggctctggga ttgggttccg gattgctgag 300
 attttcatgc ggcacggctg ccatacggtg attgccagta ggagcctgcc gcgagtgtg 360
 acggccgcca ggaagctggc tggggccacc ggccggcgct gcctccctct ctctatggac 420
 gtccgarcgc ccccgactgt catggccgcc gtggaccagg ctctgaagga gtttggcaga 480
 atcgacattc tcattaactg tgcggccggg aacttctctg gccccgctgg cg 532

362

<210> 513
 <211> 515
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (20)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (49)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (464)
 <223> n equals a,t,g, or c

<400> 513
 gcaaacagtt cttccattan tgaagcgaga ggaaaagcca taataattnc atcttcaccc 60
 actacccttc cagagctttg cttctcctcc acatttagcc attaaattgc atgaggattt 120
 ctcttcacatc gggtcgcgat ggaatcttcc ttatatattta ccccttccta catgtagcct 180
 tgaatgtcct ttccacaaat atgctccac ggctgggagc attttctttt cttttcgtca 240
 cttttgattt ttgggattag attaataggg gaaaaagtcc ctggctttta agaaaacaaa 300
 agtagaattc ttcaaaaata aatttcatac tgggaacaga aaggaaactaa atgcttcata 360
 aaacagggaa aaagaaatta agatcatcct agaaataaac taagatwaaa ataagtatac 420
 tgacccttgg ttggtagata aaaagatgac cagtcttgta ttgntttaaa attagataaa 480
 catggrttaa gcatgcaaag actctgktec ttttt 515

<210> 514
 <211> 495
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (467)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (495)
 <223> n equals a,t,g, or c

<400> 514
 tctaacatcc tccctttgct gtyctgaaaa cttcacgtca gagtcatatt taaatgtgta 60
 attactgctc tttctcctgc ttataattca ttatactttt tgaatttgag gcttgtgttt 120
 ttatgaacct tgaaaagccc tctgctgccg gcctctggag ccaccgtctc cctgcctgc 180

363

```

tctctcctct gccgaggtgc ctgttaagct gcattctctc ctccacagct ccccgcttcc 240
tgcaggcttc ctgtctcact ttctttctgt gtccacagat ctaggcaatc tctkttgtta 300
gaacttccaa ttcaccaata ctttcttatg ttgygtctaa taagctacat catctgctca 360
ctgggttttt tatttcagtg attatagttt tcatttccag atattccata tgccttaaaa 420
acatctgcat gatactccat ggttttaact cccctgatga atactgngca ttttaaccatc 480
ccagcacgtg agggg                                           495

```

<210> 515

<211> 446

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<400> 515

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attacaggca tgagccaccg cgcccggctg aactnatttt tttttaatga agtgcacgt 60
gttcccactt gcaactaaag ktcacatttg gtgccaggct gtattgcttc ytctcactgg 120
tgagtggcag ctgtgtctcc tttctgccag tccagcagtc ccagctgtca gtggcacctg 180
cataatgaca cgtctgcatt tccccccaat crgertgcag cggttttggg aggaggaatg 240
cgactgcatg gcgcgctcgc tgcaacctca gtctgcagcc tgctagggac gcacggccac 300
actcctgtct ttcagcctca gtctgcagcc tgctagggac gcaaggccac actcctgtct 360
ttcagcctca gtctgcagcc tgctagggac gcacggccac actcctgtct ttcagcctca 420
gtctgtagcc tgctagggat gcacgg                                           446

```

<210> 516

<211> 1175

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (639)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (699)

<223> n equals a,t,g, or c

<400> 516

```

aattcggcac gaggtttctc tagaagtaat ttatgttatc aggttatccc ctgagttttt 60
tcttactcac catatgtctg gtggttctca cagccagggg cactgagggg ctctgccctg 120
ggatctggag gccagcactg ttcacctgat ctccaccact gagatacctc tggctagagc 180
cataatcagg tggcccaaaag gactgaacaa ggaagaatgg gagggcactc tagactaatt 240
aaggttgtct tttcagctca aagttaacaa tgacacacat gaattttcat atcagtataa 300
ttagatgcgg gtcccatcta attacagtgg gtcattatgg ctgttcgggt agagcagctt 360
gggtgctctg tgaccatggc atgtgcccgt gtcaggacta gacaaagtca tttgcttggg 420
gaagctctct ccccttcagg tgtgaggcca ggagcacctg gtgtgggtcc tgtccctgag 480

```

364

```

gttctgtcct acaccaccct catgcaacac ctactacaca caggtgcaca gcgactgtca 540
caggcgcttc atgtttaagg atgggcctcc gtgtcataaa cttttttaa gggtatatag 600
rgatagctta tgraatccaa atcaaagggtc cagagtttnc agcaaattgt acctacctat 660
ttgccaactt amctcaccat agaaaagccaa aagattcanc ctgtggccag tctttcacat 720
tacagagttt aaagtacttt ttttaaatty ctattttatt ttttaacaaa tatttaacaa 780
aatatagtat atctcatgtg ccagggtacta tttgtaatat ttataaacac tgatttaytt 840
aatcttcaca gagactcatt ttacagattg gaaaacagag gcagagagaa gttaagtaac 900
tttaatgtca ctcagctggg tagtatcaaa gtcttggctg ctggctccag agtctagacc 960
tttaaccact gtgttatgct ttccatgggt aaagcaacct aaaaaggccc ctggaatcag 1020
ttacatgtgg ttggagacta actctgtcat tgacttacta aatgcttgat attgggcaat 1080
ttatctaacc tctctctgca tttagtaagt caatgacaga gttagtctcc aaccactgtg 1140
ttatgctttc catgggtaaa gcaacctaaa aaggc 1175

```

<210> 517

<211> 473

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (338)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (344)

<223> n equals a,t,g, or c

<400> 517

```

ctaacatttt tttccttttt tttccccc aaaggatataat gtattatcta tcaaccactc 60
tctcagaata acttgtttgt tttatcatgt actgtgatag gttagtcatt aatttgcagt 120
taatgaaggg ctatttattt catgcctacc ctcacagggt ttctttcttt tttctttttt 180
gtgacggagc tcaactcttt accaggctgg agtgcagttg cacgatctca gctcactgca 240
atctccacct cccagtttca agtgattctc ctgcctcagc ctcttgagta gctgggactg 300
caagtatgaa ccaccatgac tggctaattg tggttttntt tttngtttgt ttgtttgttt 360
gtttgttttt ttggcagcag gtcgggtggg gggcagtggt tgtagagaca ggtctcaca 420
ttgtgccag gctagtctca aactcctgat gtgaagcaat cctctccgct cag 473

```

<210> 518

<211> 1508

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (929)

<223> n equals a,t,g, or c

<400> 518

```

catcgaccgg gagctgagcc ctgagggccc aggcaaggag aaggagctgc ctggacagac 60
cctgcactgg gggcccaggg ccacagaagc cgcaggctcg ggtctgcagc ccctgaagct 120

```

365

```

ggactaccgc gccctggccg ccgtgcccag cgctggcagc gtgcagaggg taccgtctgg 180
agcagctgga gggaagatgg ctgaatctcc ctgctccctt agtggccagc agccgccctc 240
cccgccttct ccgatgagc tgcccgccaa tgtgaagcag gcctacaggg cyttcgcggc 300
cgtgcccact tctcaccgcg ctgaggatgc ccctgcccag cccccacgc ctgggcctgc 360
agcctccccg gageagctgt ccttcgggga gcggcagaag tactttgagc tggaggtgcg 420
cgtgcccag gccgagggcc cccctaagcg cgtgtccctg gtgggtgctg acgacctgcg 480
gaagatgcag gaggaggaag ccagaaaact acagcagaag agagcgcaga tgctrcggga 540
ggcggcagag gctggggccg aagcgaggct cgccctggac ggggagacgc tgggcgagga 600
ggaacaggag gatgagcagc caccctgggc cagcccgagc cccacctcaa ggcagagccc 660
ggcgtccccc ccgcccttg gaggtggcgc cccggtgcgg acggccaaag ctgaacggcg 720
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ccgggggacg cgggggcccc tggagcgant ggccgaggcc ccttcccttg cgcccacccc 960
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ggaggatgga gaagtggctc tgggtcttct gggcaggccc tcaccggcg ctgtgggccc 1140
tgaagatgtg gcactgtgca gcagccgcg ccccgtaagg cctgggcgcc gtggcctggg 1200
ccctgtgccc tcctagagga gcaggcacct ccccagact tggggtgggg gccctgccag 1260
ctccagcacc accttgccc caagtctttt aacctgggtg ttagcatttt aaagagaccc 1320
cacaggagtt ctggcctgtg actaactaac tgccccaccc cagccgagac ctcggcgaga 1380
ctgtaactag tgatgtttgt acaaccaaag actctatttt gtggtttaag gagaataaag 1440
ttgactacat tttaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagaaaa 1500
aaaaaaaaa 1508

```

<210> 519

<211> 592

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<400> 519

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cctcactaag ggancaaaaag ctggagctcc accgcggtgg cggccgctct agaactagtg 60
gatcccccg gctgcaggaa ttcggcacga gtatgtttgt ttcggttgaa atttttcctt 120
aagtgtcttg tgatcccttg atttctgctc ataattaagg aaaagaatgc tgactcactg 180
gaccaggcca gggcttctct cccagattgc aggcttgcc cggggataca cgggtttccc 240
aaatgctaga atgaaaagag attttatttt ggcttgctaa catcaaagat actagtttct 300
ccagatgggt tattcagaac actgttgtct tatttttatt tgtctgagat taaatgtctt 360
cccctttaat taaagggagg tctctgatga agtaggtttg ggaactgcta ccttggtgac 420
agcttgagtc tttccttttag tgaagtgcag cacaattcca cgtgcacggg gaccttctct 480
tgattagggg gccttggaat gtacagaacc taacttgaat atacagcact ggtttcttgg 540
taagragtgt acagtgatct aaacttgcaa accaaaatac agagatgatg gg 592

```

<210> 520

<211> 568

<212> DNA

<213> Homo sapiens

366

<400> 520

```
gctgcagcct cacagactcg ctgagtcgct cctgcagaaa ggggggggaga gagatcgaaa 60
agcagggggag ggggacggca cggccgttta cctgtctgcc tctcattcg ctctcccccc 120
tcgtttctgct cactcctggt gtcagcctat ccgccttccc aaacctccc attcccccg 180
tgtagccccc cccttcaactt tccttctcgt cctctgtggt tctcctctct tctttcttcc 240
cttccccctc tagcattgct accttctctc ctacacgcac gcaggcatat aaacgtaggt 300
ttttgatgct cctctgcctg ttgaccccg c tttttcatg tttccaacag gtttttcttc 360
ccccagtccc tcagctgctg ctgctgctca ggaggtcaga tctgccactg atggtaatac 420
cagcaccact ccggcccacc tctgccaaga aggagaaagt taaacagcag cagcagtagc 480
agcagtaaca gtagtaacga gagagaagac ttgtmttcca cctcttctc ctsttccact 540
cctcctttac aacctcaggga ttcggcat 568
```

<210> 521

<211> 987

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (61)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (162)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (934)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (968)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (974)

367

<223> n equals a,t,g, or c

<400> 521

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tctttcactaa gggatcaaag ctgngncncc accgcggtgc gaccgctcta gaactagtgg 60
ntcccccggg ctgcaggaat tcggcacgag tttttttttt ctttgtgaat tgaatgtacg 120
atacaaatgg taggccttca tgtgagccag ttactacatg antcttcatt tcccacagtg 180
gtttgttcat tcatcagcgt taggcttggg cctgggtcca cttttctcct ctccgggcac 240
tgaccccacc tttccgtgta tttactgtag gctattaaat atgatcatga cccgccttgc 300
attttcatte atcacctgtt tatgcccata tttaaaggaa gtttgtctca ttttgccaga 360
aaaaaattgt aatagtcggc acgctggatt tgtagggcca gcaaaattgc ggcagtgaag 420
ctagtttcac ttctaaagcc cttcatttcc cacaagggtta agctctcgaa accccatttg 480
atccttgggt cctatttctga tcctcctttg gaatctgaaa atcgggtctcc atgttgtatg 540
cagattagaa gttgccttgt ttgttactct tccaacacag ggtatcaggg agaaagaggc 600
cttatctgtt cctccatccc cctgtttttg acagactgct aagaattcct caggacttcc 660
tttggttggg gattttactt tcccaaaagt ctgatctgat ttctttcagg ggtagacaag 720
cttgtcctag tgstctgstt caggctttat cagaaggaaa cccagggaat agggaaaagg 780
aggatgcctt gacttttgtc cctgttgttg gggacttaaa gtgttttttg ccagaattgt 840
tcaaaagctc cgttttcaaa ctctgtagga gttttcatgg ggaaaaacaa aacaaaacaa 900
aaaagggtgc ttattcgtcc ccggagatgt tgtnagtaag gttcttccag cacggctttg 960
gggttttncc caantgggga agccaag 987

```

<210> 522

<211> 1155

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (23)

<223> n equals a,t,g, or c

<400> 522

```

tagtgtctn tnntggaacc ggnctcacta tagggaaagc tggtaegcct gcaggtagcg 60
gtccggaatt cccgggtcga cccacgcgtc cgcccacgcg tccgcccacg cgtccgcccc 120
cggtccgca acaatatcct tattttaggt gccactagca gatgtaagcg tatacttagt 180
tgccgttaga tgtgacagaa tgagataatt tatgtaaagc agtagagtag ctggcacaaa 240

```

368

```

gcaaacaata aatattattg ttattgttgt tataattgta aaatgaatga cttcaaaaac 300
atagtcccag tttggaggga ttttgtgatg cagaatatct aagtcataga aatagaagac 360
aggtggaata agtatatgtt cagagttttt agatgtgttg agtagagacg gkaataatgg 420
aagcattaaa tacaaatgaa aatcacacca gatatccctg raattcaagc aaagaaagtt 480
catcatgtat tcttgggcag caagagaaaag gactagggtt atggcaatgt gtggaaaagt 540
tgaggcttgc taagggttga gatctgttgg tagccctggw tcacatgggg tcagcaccag 600
gcagtgscty tgaaagcgga garaggctct ggacttccct tgkgkataac agttcctagt 660
gtccaacaat gaggaaaygg tgaagcatgg ttacaaaact gtgacaaaaa tatttacatc 720
tagcactgtt accactcaca tgccaaacat tggctgcaca cgtgcagctt atttgtaatt 780
aacatcaaaa gactagatct gaagccttcc ataaatgaga ggccattcat atggcattcc 840
tggaacaaaa cactgcacag gtaccagcct ctccactcct gaccgggttg gtgctgaaca 900
gtcagggtt gttcttgaac tagacttctg atgcttcttg caatcttctt tcatctttcc 960
ctgaaataca caaaataaac aaatacaata acaaatagta attaaatgac tttcaggata 1020
acatctagtt gttcagactt cacccttcac aggtgtgtgt gtatgtgtgt ttatgtytgt 1080
atattgaagc aatttgaatt tatttactgt atattttctg agtaaaagac tgaaatgaac 1140
tacttggttc agaaa 1155

```

<210> 523

<211> 529

<212> DNA

<213> Homo sapiens

<400> 523

```

agttctgctt tttcgtcctc taccagtctg attaatctgt aggtttaaca cttccttttt 60
ctttctcctt ggaatgcctc ttgggatatg cattagttgg tcttatgtct tttcttggtc 120
taggtgggtg gtgtgttttg cttgttttgg gcacttttag aggtccagc tgcacatttc 180
cactcctctc tgtgtgttcc tctctgcac tgctgtttgt gtgtgtacac tttttttctg 240
agcaatcttt ctcccttagcc acattgagtt ctttaacagt ttttctgttt tcttcttcat 300
taagataatt aataatcata ctactcacat atcatgtttt agaacttcc aagcctttcc 360
ctttccacc ttttggacct cctaactgaa tttcaaagtc ttcrttctt agattaaaaa 420
aataaatcca aagataaaaag aatgtaatgt cttataagtc gtatcagtg atattttctc 480
tgttattgtt gttagtgtta taataaatcc taagtgcac aaaaaaaaa 529

```

<210> 524

<211> 1981

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<400> 524

```

catgtttgac catggtaata tcttttacta cctggaccat ttaaatttcc taaatgngaa 60
aggtatatat attmctgtaa ctgtagaggg aaaagggaaa gtatttgggt ctaaaaaatg 120
ttagccttcc tcgtaaaaagt agcacaagcc cacttatgaa tcaactgagaa aaagtgaana 180
acttgagttg gcaaaagatgc agagcagcag tgcagatggc aatgaactct ctgaattctc 240
ttttacctta tttagaagaa tgcagagtaa agggaccttc ttggttctgc aggaacttct 300
caagggatga ggagacagaa cccctacttc caagtgtctt atttgtatta ccagatgac 360
tgaagcttaa gagaaggcag ggaagtatac aagcagagcc agttctggta caaacaaga 420

```

369

```

atttgacagg gacaatggaa ggggtcttctt caccactcct taccttctat gtgatggaaa 480
gactagagct tataaaagta ctccattttt tttattctcc tgaataccaa aggcaattaa 540
agtcagctac aaatgacttg ccagtgatcat gttttatttt tgttatagat ttttaaatta 600
tttccttcaa gatcagttct tatcccatat aatgcttagc ttccaagaat attctttact 660
ttcttctgtc ttttacagct ctttgcattt tgtagacctt aatactcagg ttaaataattc 720
attgcattta taagatcttc tgcaaaaagc ccagaaatgg tccttttcag gtgcctcttc 780
aaagagctga caccttacct tgtgcctttg gcaartgtg cagaatagat acatcagttg 840
gtgcataatc gaaaaaata ggaattttga acactgttct tccttctaca tttatttctc 900
ttcatttttag aatcacactt tttatgttaa accagattat tattattatt attattcaac 960
cagtattaag ttgttaaaac caagggaatg gggccctaac caaaaagaag tctcaactca 1020
gaaaaataag tccccagtcg ggtggttctt actttcttgt gggttgcaca ttttgtatct 1080
ctctaacatc agcgtattcc tgactttaag cagggtgtta tatgtaaaat aaaacctggg 1140
tatcgaaggg aaatgcattc tttttatgga gtattgacct tgatcctcta tgatgtcata 1200
tagagcaact cagggtctata ctgtctagat ttttaaccaag cagtttgaaa tattaatcat 1260
catcctctca tcttctccas tctccattgc caaagtcttt gtcaaaactc caaatttggt 1320
gataaaagat tgtgtttgac attctcattt ataatgcagt ttctccttaa gcttggagtt 1380
ttttgaatga gtgcattgag aaatgagaga atgtgtgaac gaacatttat gaagtatcta 1440
acatgtgcca agcatttgtc ctggcacttt caatcattag aatgttttat gtgattccac 1500
agcattttct gtatragagt agctcacac attttaaatg tttccaatat gaatcgtgtt 1560
acaaaattct taattttata tttcatataa attaaagagg aaaaagaaaa ggttttataat 1620
atatttttaa acaatgtgtt actrtataat acaactataa ttgtagttaa taactaaaac 1680
ctcttgaaaa tgtcaaagaa atacttgatt tctgatgcaa ctttgactaa aatatttact 1740
ttagaaataa aaacgttctt attttgctat atcactttta ttgcataatt aaaaagcagt 1800
gttttataga aatgctgggt attttatatt caaaaagatt ttgtcacata attcatgggt 1860
aaaacttgca gttgtaaatt gtgtctgtct tggtagggc cctattaata gtcccatgct 1920
gttaaataata aagaaaaata tactaaaata ttcaaagttc caaaaaaaaa aaaaaaaaaa 1980
a 1981

```

<210> 525

<211> 1570

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1533)

<223> n equals a,t,g, or c

<400> 525

```

gcccacgcgt ccggcctcct gagtagctgg gactataggt gcccgccacc actcccggcc 60
aatatttgta ttttttgtgg agacgggggt ttgccatgtt ggccaggctg gtctcaaact 120
actggggtca agtgatccac cctcctcagc ctcccaaagt gctgagatta caggcatgag 180
tactgctgtc cagcccaacc ctctcttttg atgtgaaagt atcacctttt gtacatttag 240
tccataccca atatctcttt gcctccttta gtgcaaagtt actcactcct atttgtatct 300
aagagaatct ttccactttt ctgagtgggc actagttttg gagtatatat attgtatgcc 360
atgaactata tttttctgct tatggctttg cctcatttaa ttgccatagc acttacatgg 420
ggcagggtatt cattttcctg cttagcaa ataggaaactg aatttcagag atgtcaggta 480
acctgcctac ttcacacact aggagttttg atgtttaatt ttgaactaag atctatctgg 540
cttgaaagct ctttgcatta aacaaccttg aacaatatac ttggaacgta ggtgtgtttt 600
tggcacagaa catggcatgt gtgtgaggga ttgaacacag acttgcccag attcaaactt 660
accaatcttc tgtttcatgt gcccagaaga aacagcctgt ttctcagcct caaacccaaa 720

```

370

```

cttctagttg tcttgattgg ttcagcctga ctgtccaact ctgatttata gctgtgattg 780
ggggagctga gattacacag tgtaggcagg cagaagggcc ccaggcctat tgatatgggt 840
gaggacaata ctcaagcact cccttcaact actcaactctt ccaaggtctt ggcttgaacc 900
caattttttt tgagagaata aaccaggctt tttgttctcc acttggcctg actccatttc 960
tggcattcca gccatgtatt tagctgttat cagctttcag atttagasaa agccttgttt 1020
ccaataagct tgtttctctg aagtaattgt taaaatataa ttttcagaaa aagggttaaat 1080
catgactcat acaaatataa aaatgaacat gtgctaaaga tttttatttc actcatgtga 1140
tatgaagtaa ccagacagaa gttataacca gtacatatgg aaagtcaaaa agcacaaaatt 1200
catatgtagt aaaggaattg gattgcaaat gaaggcaaaa ctgttttttyc tacagggtgg 1260
agggaagata atcaaaaatgc tagaaccaga atttscatgc ctgtcactta gcttcaattt 1320
acaaaagccc agaataactc aaaggcaaat tctagccctg caaatatcag ccctaaagct 1380
gtgctgtggc cagtgcatag ttttctattg aagtacaatt ttttcccaa atacattatc 1440
tctcagaggg agtccaaatt gcttcccttt cactcagcag atctgttcag tcaacagatg 1500
ttaaatagct acagcgtatc aggcacaaat aanttcctta taaaataaag taacaaacta 1560
tatgttgttt                                     1570

```

<210> 526

<211> 1084

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<400> 526

```

caattttctag taggaagaga ataattacat ttgcngggggg ggggtggataa aaacatgtct 60
gcttctcatt taaataagag agaaatgatg ccgttttttta aatgtgaagc agactataat 120
tctcagctct cttttcttct tagccttaaa ttaatattct ctttcttcta gttttggaaa 180
gtgtagtggg aatattcaga caaaagaggc cattttccat ttttaaagct tcttactggt 240
gaaacagccc agttgtagta ggtgccagtc agtcaaggca ggggcctctc tccgtcaata 300
tggaaaaactc agcagttttc ctctcccca gttgtgttct tgtaacgttg ttaatgggtt 360
cctttgcttt ttgctttctc cttttctgaa aatgtatgtg ttttgctct cttttggcta 420
catcttcaaa atatttcttt tgtgcctatg tacatgtgta aacatgccat agcatgtgtg 480
gtagggtgtc tgtattttgt ttgggaaaaa aactatcaaa atgaggaaga gaatttcccc 540
tatttatgca ctaggtttct gtgctttttc tttgagttct ctggagtaga tattaatttg 600
ataccttcat ggtaatgaaa ttatgatgga gctgtgttat aaattcctta tgtcagaggc 660
cagtgcggta gccctttgtcc cttcatgcct ttcaattctg agtgggagga aaagcaaaaca 720
tcaaaacagt gcttcagcca aattccatat gtaatgccat tgggagagta ttgactaaaa 780
tatcattcgt caggggaaata tagttgtaat atttttacag gatattccta ggtaaatgaa 840
ggagccttca gttgtaaaatt tcaattaccc caaaatgtat ttgctacatt ttgttgtttg 900
aagtattacc tcttaacctt ctttgttaat ttttttcatt ttgtcttata tagtccagtt 960
ttccaagata agctcagtc tttttcaaat gtcmcccttt taccaatact ttttcattaa 1020
attatgaaaa ctgctaaaaa aaaaaaaaaa acaaaaacca agtacctgcc cgggcgggacg 1080
ctcg                                     1084

```

<210> 527

<211> 1506

<212> DNA

<213> Homo sapiens

371

<220>
<221> misc feature
<222> (1491)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1502)
<223> n equals a,t,g, or c

<400> 527
tatagaaggt agcctgcagg taccgggttcc gaattccccg gtcgacccac gcgtccgact 60
aaaggcagca agggattgta aactaatctt acatagtcaa tgtttcatag aatgctttgg 120
ttacaatcag gttttttaaa gacttttaaag gttttttgta tgctataata tatgcttatg 180
atcttctaaaa attatgcagt atacacaaaag ggcataaaagt caaaaagtgt gtctccctct 240
gtgacttttat tctcataccc cagagggtata taatttcttg tattcttgtg tagtctttaa 300
gaaatgttat cgtttatctt atatatggct ctctctctgt atgcctcttc ctgttcttat 360
tttaaatgtt caagtttgtg acttgggttct tgtttaactt ggttgtcttt ccatattgcc 420
accttccagc tctaacatta atgtctccag gattccatta tatggatgtc cctttggaga 480
acatttgttt atagactttt ctactaaaaa tattgttata atgataatat ccttatgcat 540
atatgaagat tactcttgat tctgcctgac tggaaaacttt attaataaag tagacattat 600
tctatcttga ggctcaccag ctgtgtaggt atgatcttgt gcttccattt aagaaattct 660
tccattttaa gaagaaaaaa aatctctcta attgactatc tgaagatata tgaaaaagcc 720
tatgctttta aattaaactg ttaagacagt ccattgaaaag attgtggaag ttcacatcta 780
ttttgcacct taattttttc atigtcccta ctcatgactc taaaaagtgc atggcttggg 840
gctatacttt gttttgcagt ttgttgggtat cgtgcctttc cttatctaca ttagcttaga 900
ctataacctta tttttaagaa gagaaagtgg aaattaactg tggcaaaaacc tattttggca 960
caaccacatt tgttcattat acaaaattag ctccctatgc tttagaaaaa atgtgagtta 1020
ttactctgaa agttgtgatt ctgattcctc atgggttggga gctcagaaat ttcttaacat 1080
gtcttttctg ttagtcaagc acaggatttg ttttctgcaa aagtttattt tcaatgaaga 1140
atacttgtcc taatagctca taaaaagtac ctttgcactt taaatcctag gaatagggaa 1200
caaggaaaact tactgggaag ttcaaaaagaa agaataacag gaccttctag tcagcagggc 1260
atgttttgaa aatgttaata cgccatgatt tttgaagacc aatttttagtt caggagggtgg 1320
ttttaaatat tggatgaaaa cttacaggct gttttcaata ttcatttctg aaatacttta 1380
gtatgataga taaatttggg taagttcttg ttcattgtga aatactgttg gaagaatttt 1440
tttcaaaaata aagacttctg aatttgtgta ccaaaaaaaaa aaaaaaaacc ncggggggggg 1500
gncccg 1506

<210> 528
<211> 321
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (231)
<223> n equals a,t,g, or c

<220>
<221> misc feature

372

<222> (315)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (320)

<223> n equals a,t,g, or c

<400> 528

```
ctgcactaca cacgtggttg tacctattag caaactgcgc tgctctaacc tgccacctat 60
ccctttgccc caacacaact acggttgcca ccggtgccac aacaattcca actgtaacac 120
tggttaattgc gtactctgcc acaaatagcc cttgcgggag caccagcatg ctgggcctgc 180
ttgcgttgcc gtctatgtcc acatatatgg cggcgagcgc ctacacaaca nctcttttaa 240
ccttcacgtt ggtgggtaca ttaaacttgg ccacgtacg cttactcagc agcaacagac 300
ttacctgcaa caantccan t 321
```

<210> 529

<211> 814

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (171)

<223> n equals a,t,g, or c

<400> 529

```
gtgggattgc aggcacccac catcatgccc tgctaaattt tgtacttttg tagagatgga 60
gtttcaccat gttggtcagg ctggtcttga actgctgacc tcaggtgac tcgccacctt 120
ggcctcccaa agtgctggga ttacaggtgt gagccaccat gcctggactc nttgttggtg 180
ttgtttttta ttagtgagga gctacaagaa cacatttata aaaattaaga ggaaacagcc 240
ccactgcatt tgagaagggt accatttctt tcgaagtctc tgctgttgcc ccttctggt 300
gggggagaca ctgtcctgtt tcagtcattc cggttgctttg ctttatagtt ttattaatgt 360
gtttgtgttg gctttgcatg ttttcaaata tatgaatgaa atcatgcaga gtttattctt 420
ttacagtttg ctttttcact tgattatgtt cctgagatgt atccggatta ttgtgtgtag 480
ctgtatggca ttccttttcc ctgctgccta gtgatccatt gaaaatacaa taattgattt 540
ttctatgttg ttccactggt catttttctg cccctgtgcc ctttgggaa catctcctaa 600
actctagtct cggcccttgc tcttccatgt aaccttgaga atcagcttgt caaatcccc 660
ccaaaaaccc cttgagatgt agaatgkaac ccagctgaat ctatagrtca gtctggataa 720
aatcagcacc tgtgtaaaat tgaattttcc cattcatgag cagggtttat ttctgcactc 780
aatgttttca ataaagttgt gtaccttttc ccat 814
```

<210> 530

<211> 326

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (254)

<223> n equals a,t,g, or c

373

<220>
<221> misc feature
<222> (273)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (289)
<223> n equals a,t,g, or c

<400> 530
ggactgagct cggcgcctct agtgtagatg ggTTTTtaat tttcccagct gaacgtcggt 60
atTTggattg tgatttcttt ggtgwtTcaa tggactgtag atgaaggagg acctgttttc 120
tctcaggagt gtctgtgggg tctcttgTcc tggTTtgctc agtgaagtgt ggccccaagg 180
gctgagggag gtggccagga ccccgCaggg tggcccccac cacagaggct gctgtcctac 240
gggttcttct ccanTTtctg ggaccttgcc gangagcctc tgggagggng aaatggccac 300
aggcctggag aatcgacacc cggTgg 326

<210> 531
<211> 564
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (470)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (501)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (521)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (564)
<223> n equals a,t,g, or c

<400> 531
gggcctggTg ggcccgcTgc tggTgtgcag ggctggTgcc ttgggtgcag atggcaagca 60
gaaaggggtg gataaagaat tctttcttct cttcactgtg ttggatgaga acaagagctg 120
gtacagcaat gccaatcaag cagctgctat gttggatttc cgactgcttt cagaggatat 180
tgagggcttc caagactcca atcggatgca tgccattaat gggTTtctgt tctctaacct 240
gcccaggctg gacatgtgca agggTgacac agtggcctgg cacctgctcg gcctgggcac 300
agagactgat gtgcatggag tcatgttcca gggcaacact gtgcagcttc agggcatgag 360

374

```

gaaggggtgca gctatgctct ttcctcatatc ctttgtcatg gccatcatgc agcctgacaa 420
ccttggggaca tttgagattt attgccaggc aggcaagcca tcgagaacan ggatgaaggc 480
aatctataat ggctccaatg ncctggggcac caagccaccc ntggcaacgc ttccaacttg 540
caagaatcta ctatttcatg gcan 564

```

<210> 532

<211> 616

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (149)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (613)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (616)

<223> n equals a,t,g, or c

<400> 532

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gttccaggaa ccagcaaaca agaggctgct cccgcaggag gcagtgtgaa tggagaaaga 60
aggctgcagt aggggctgct gctggactcg gtggggagca ggtgcaagga gctctggctc 120
ccccatggac ctgagctgga gagcagagng cagctccagc ccattcctca ttcttccagg 180
gcacagtcct caggatgttt cggggagaaat aggagccaga acctgagccc ctaagccatt 240
cccctcacca atgatggggg cccagtgtag tcatctgctg gccggcttct gtgtgtgggt 300
cgtcttgggc tgggtagggg gctcagtccc aacctgggccc ctgctgagca ggagcagaac 360
cattacctgg cccagctgtt tggcctgtac ggcgagaatg ggacgctgac tgcagggggc 420
ttggcgcgcc ttctccacag cctggggcta ggccgagttc aggggcttcg cctgggacag 480
catgggcctc tgactggacg ggctgcatcc ccagctgcag acaattccac acacaggcca 540
cagaaccctg agctgagtgt ggatgtctgg gcagggatgc ctctgggtcc ctcaggggtg 600
ggtgacctgg aanaan 616

```

<210> 533

<211> 649

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (644)

<223> n equals a,t,g, or c

<400> 533

```

ggccagcatg gatcctgaca gtgatcaacc tctgaacagc ctcgatgtca aaccctgcg 60
caaaccctgt atcccatca tcatagcact actgagcctg gcgagtatca tcattgtggt 120

```

375

```

tgtcctcattc aaggtgattc tggataaata ctacttcctc tgcgggcagc ctctccactt 180
catcccagagg aagcagctgt gtgacggaga gctggactgt cccttggggg aggacgagga 240
gcaactgtgtc aagagcttcc ccgaagggcc tgyagtggca gtccgscctc ccaaggaccg 300
atccacactg caggtgctgg actcggccac agggaaactgg ttctctgcct gtttcgacaa 360
cttcacagaa gctctcctg agacagcctg taggcagatg ggctacagca gcaaaccac 420
tttcagagct gtggagattg gccagacca ggatctggat gttgttgaaa tcacagaaaa 480
cagccaggag cttcgcatgc ggaactcaag tgggccctgt ctctcaggct ccctgggtctc 540
cctgcaactgt cttgcctgtg ggaagagcct gaagaccccc cgtgtggtgk ktggggagga 600
ggcytctgtg gattcttggc cttggcargt cagcatccag tacnacaaa 649

```

<210> 534

<211> 723

<212> DNA

<213> Homo sapiens

<400> 534

```

tcctctaaca cattcagact acaagtccag acccaggaga gcaaggccca gaaagagctg 60
gaaaggcagc tcatcatgca gagtgaatg agggaaagac aaatggccat gcagattgctg 120
tgggtctcggg aattcctcaa atatttttggg actttttttt gccttgccgc catctcttta 180
acagctggag cgattaaaaa aaagaagcca gccttcctgg tcccgattgt tccattaagc 240
tttatcctca cctaccagta tgacttgggc tatggaaccc ttttagaaaag aatgaaagggt 300
gaagctgagg acatactgga aacagaaaag agtaaattgc agctgccaaag aggaatgac 360
acttttgaaa gcattgaaaa agccagaaaag gaacagagta gattcttcat agacaaatga 420
aatcatgctt accaatcaaa tctcaaagca cagaattatt gacttgaatc atgggttttta 480
cagtttttta aatgctcaag attttgatat tatagatttt attttaaaat attaaaatgc 540
aagatagttt tgagctatatt taaaataaaa ttataacat tcaacacaaa atcatggagg 600
tgctctaaat aactttttaga ttctctctct ctgtgtgcat taccaatatc taagtgtaaa 660
attaataaat tgttttgaat tcctggaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 720
aaa 723

```

<210> 535

<211> 796

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (742)

<223> n equals a,t,g, or c

<400> 535

```

gattggaagg cgtgtttccg gctggactga aatcctgtga ggaagattcg cgccctcccc 60
gccccctgcc ctccctggga atcctctgaa gatgcggccc cctgtccttc gtgaaccctgg 120
agccccggcc tcggccccgg cccagccctc tccggggggc gacccgggct gggacttcgg 180
gggtcctagc ctgagcccg ctcggggagaa caggcccggc cgctgtgggg agggggccgcg 240
cgctatcctc gccggggggc ctcgggaggc aacacgtgcc cgccgcccc gacctgcgcg 300
aacttcgtcg cgccartctt ccggcaaagg gtctcttttt tttagtttag gtaaaataaa 360
atctcccaga gaaaacaaa cggggaaggg agccccctt ctgtgaaacg catgccatct 420
tctccatttg tcagtttgat gctgtaacgt acatgggggt ttgcaagagc ttcaaaactg 480
tctgcagacg tcaatttcgc cctccccct gtgagaactc gctacgtarc cagcaactgt 540
gtagtgtctac aaatgatgaa aacgatcaga aatgcgatta ggtgtcgggg aaaaaaggg 600

```

376

```

ttccccctgkt tttaacttgk atttttactt taattgttac aatcttgata ttcttaacgt 660
gacttttttg ggaaaccacc aagtgccttt taagcaagga gttactggta tttatgccct 720
taatattcct tcattatagg cntattgaat acgttaatat ctcagtaagt gtatttgaat 780
tataattgac tggctt                                     796

```

```

<210> 536
<211> 1135
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1107)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1123)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1129)
<223> n equals a,t,g, or c

```

```

<400> 536
cggacggtgg gncgncgaca caatgggcca yggagttccc gttcgatgtg gacgcgctgt 60
tcccgagcgg gatcacggtg ctggaccagc acctgaggcc cccagcccgc cgacccggaa 120
ccacaacgcc ggcccgtgtt gatctacagc agcaaattat gaccattata gatgaactgg 180
gcaaggcttc tgccaaggcc cagaatcttt ccgctcctat cactagtgc tcaaggatgc 240
agagtaaccg ccatgttggt tatattctca aagacagttc agcccagacc gctggaaaag 300
gagccattat tggtttcatc aaagttggat acaagaagct ctttgtactg gatgatcgtg 360
aggctcataa tgaggtagaa ccactttgca tcctggactt ttacatccat gagtctgtgc 420
aacgccatgg ccatggggcg gaactcttcc agtatatgtt gcagaaggag cgagtggaa 480
cgcaccaact ggcaattgac cgaccctcac agaagctgct gaaattcctg aataagcact 540
acaatctgga gaccacagtc ccacaggtga acaactttgt gatctttgaa ggcttctttg 600
cccatcaaca tcggccccct gctccctctc tgaggggcaac tcgacactct cgtgctgctg 660
cagtcgatcc cagccccgct gctccagcaa ggaagctgcc acccaagaga gcagagggag 720
acatyaagcc atactcctct agtgaccgrk aattttctgaa ggtagctgtg gaggctcctt 780
ggccccataa cagggccccct cgccgcgcca cacctccagc ccacccaccc ccccgctcca 840
gcagcctggg aaactcacca gaacgaggtc ccctccgccc ctttgtgcca gagcaggagc 900

```

377

```

tgctgcgttc cttgcgcctc tgccccccac accctaccgc cgccttctctg ttggctgctg 960
accctggggg cagcccagct caacgtcgtc gcaccagctc ccttccccgc tctgaggaga 1020
gtcgatactt aacagcttac ccttctccct gccctggggg agacctgggg gtggggcagg 1080
ggaacccctt ttcttgagga acctttttagg acccattttt ttncatttng cattc 1135

```

<210> 537

<211> 1234

<212> DNA

<213> Homo sapiens

<400> 537

```

gactagtctc agatcgcgag cggccccctt tttttttttt tttttttttt tgttttttgg 60
ctctttcaaa ggtaatggcc catcgatgag catttttaac atactccata gtcttttctt 120
gtggtgttag gtctttatctt ttattttttt cctgggggct ggggtggggg tttgtcatgg 180
gggaactgcc ctttaaatctt taagtgcacac tacagaaaaa cacaaaaagg tgatgggttg 240
tgttatgctt gtattgaatg ctgtcttgac atctcttgcc ttgtcctccg gtatgttcta 300
aagctgtgtc tgagatctgg atctgccccat cacttttggt agtgacaggg ctaattaatt 360
tgctttatac attttctttt actttccttt tttcctttct ggaggcatca catgctggtg 420
ctgtgtcttt atgaatgttt taaccatttt catggtggaa gaattttata tttatgcagt 480
tgtacaattt tatttttttc tgcaagaaaa agtgtaaatg atgaaataaa ccaaagtcac 540
ttgtttgaaa ataaatcttt attttgaact ttataaaaaa caatgcagta ccccatagac 600
tgggtgttaa tggtgtctac agtgcaaaat ccatgttcta acatatgtaa taattgccag 660
gagtacagtg ctcttggtga tcttgatttc agtcagggtt aaacaacgga caataaaaga 720
atgaacacat tctctgtgtg tgattcactc ttgtctaaat gtcccaacct gtgacttctt 780
tactttccac accactaatt atccaagatc ttgaagaagt attgaacctc taataggcca 840
tctctggcca gatcagtaga gtgaacagca ttctggatct tagttttacc aaagattgct 900
ctgagagtgc cagggcgtaa atgcccggga atttcaggat cagcagggtc acaaaattct 960
cgaaatgtct ttgtagcatt attctgttga atctccattg ctacacaagg gccagaatac 1020
atttctgtca ccatgtcatg atattcggtc actactcctt tataaaactt atagaattcc 1080
tcaacattaa cccgatccat attgaacatc tgcatagctg agatttcaaa acctgcactc 1140
cggatagcca tcaggatctt tcccaacagt ccttcactga cagcatgggg tttaacaatg 1200
caacaggtac aattagtaaa tttagcagtg tttc 1234

```

<210> 538

<211> 1539

<212> DNA

<213> Homo sapiens

<400> 538

```

gcaaaatgtg attatgtttg ttggattgca agggagtggg maaacaacaa catgttcaaa 60
gctagcatat tattaccaga ggaaagggtg gaagacctgt ttaatatgtg cagacacatt 120
cagagcaggg gcttttgacc aactaaaaca gaatgctacc aaagcaagaa ttccatttta 180
tggaagctat acagaaatgg atcctgtcat cattgcttct gaaggagtag agaaatttaa 240
aaatgaaaat tttgaaatta ttattgttga tacaagtggc cgccacaaac aagaagactc 300
tttgtttgaa gaaatgcttc aagttgctaa tgctatacaa cctgataaca ttgtttatgt 360
gatggatgcc tccattgggc aggcttgtga agcccaggct aaggctttta aagataaagt 420
agatgtagcc tcagtaatag tgacaaaact tgatggccat gcaaaaggag gtggtgcact 480
cagtgcagtc gctgccacaa aaagtccgat tattttcatt ggtacagggg aacatataga 540
tgactttgaa cttttcaaaa cacagccttt tattagcaaa cttcttggtg tgggcgacat 600
tgaaggactg atagataaag tcaacgagtt gaagttggat gacaatgaag cacttataga 660
gaagttgaaa catggtcagt ttacgttgcg agacatgtat gagcaatttc aaaatatcat 720

```

378

```

gaaaatgggc cccttcagtc agatcttggg gatgatccct ggttttggga cagattttat 780
gagcaaagga aatgaacagg agtcaatggc aaggctaaaag aaattaatga caataatgga 840
tagtatgaat gatcaagaac tagacagtac ggatgggtgcc aaagttttta gtaaacaacc 900
aggaagaatc caaagagtag caagaggatc ggggtgtatca acaagagatg ttcaagaact 960
tttgacacaa tataccaagt ttgcacagat ggtaaaaaaag atgggaggta tcaaaggact 1020
tttcaaaggt ggcgacatgt ctaagaatgt gagccagtca cagatggcaa aattgaacca 1080
acaaatggcc aaaatgatgg atcctagggt tcttcatcac atgggtggta tggcaggact 1140
tcagtcaatg atgaggcagt ttcaacaggg tgctgctggc aacatgaaag gcatgatggg 1200
attcaataat atgtaaaaga aatgccttaa tataaactga ctcagttgaa tacctaattt 1260
gctgagacct cagcgtttcc cttctttttg cgaattgggg agaaagtgt tttttcttgc 1320
ttatcatgca ctctttcctt tttttctcgc ccgcttttcc cctccttttc tttttccttc 1380
cttctttcct ccctttaata taaggagaa atacatggtt tttgtggaaa tcattatatg 1440
tttgctttag attttcttct gttttcacca tcataacact taagttaa at catgatgtaa 1500
aatttttagta cctcggccgc gaccacgcta agccgaatt 1539

```

<210> 539

<211> 788

<212> DNA

<213> Homo sapiens

<400> 539

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gagtctcata tccttgact tcagtttttt tgtgtgtgaa tactatccct ataccactac 60
ccctaaaacc tcagaattat ttgctttatt ttttcataca acttggggaa gggaaccatg 120
ggagtatgca catgggatca taatccattc tgtggttttg aaaaagaaaa tgттаacctc 180
tgcttttagag ggtagctact agctttgttg gggataaaaag tgtaatacat gcacttttga 240
actctgaaag tttgccaatc tgaaaagggg tgtttctgaa gaccactatc ttttacgaac 300
acttaaaaat aagtgtttgc agttgtgtat gggcacgata ctgtattctt tacatttttta 360
tggccctaca gctacttctt atccctgcaa gtatataaat taaaaccaag tcacttttaga 420
acagctttga aactagagtt tcaaaggtaa aaggatctca tgtttctgaa tctgcgtaaa 480
gcaagatggc tgtgatttga cagttttaat tgctagkttt tataggtgga tagaaatgaa 540
tagtttggag tctttaaaat gttttaaaaa atgtttgctt actatctata tatatgacat 600
tattcccaat tagttttata tctccaagat atatatatgt atataggtat atacacatat 660
gtatatatac atagtctata tattctatat aagaatatat tccaataaga atatattcca 720
tacgggaata tattagtcat tgatgtattt tgccggtaaa attaaaagat attttaacaa 780
aaaaaaaaa 788

```

<210> 540

<211> 874

<212> DNA

<213> Homo sapiens

<400> 540

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ccacgcgtcc gcggacgcgt gggcggacgc gtgggaaaaa agctgcgagg aaattgactt 60
agacaaacac aagagcatcc aaagaaagaa aacagagggtg gaaatagaaa ccgtacatgt 120
cagtacagaa aagcttaaga atcgaaagga gaaaaaaagc cgagatgtag tctctaagaa 180
agaggaacgt aagcgtacaa aaaagaaaaa ggaacaaggc caagaaagga cagaggagga 240
aatgcttttg gaccagtcta ttcttggtt ttgaagcttt caaagtgggt tctcccaaag 300
ttaaattgaa aaaatagggt agagcttgggt tttatgatat ccgtgttcat accacttttc 360
ttatgtgaat aggttcttta acttctaaca aaggcctagt aaacaaagt ttttagcatgc 420
ttgctctcca acacagaaat tgcttttccct cattttctaa aagcattatt acattttttg 480
aacatatagt gtaatttcct ttaatgaaag tgactctgct tttattcatc aaattgcttt 540

```


379

```

gatggtggaa atattttctg ttgggaggtt atttatttta aattggagga ttaatgacct 600
ttgcacaatc tgtttcttga ttgggtttgt tatagttttg agttgggtat tttatgttca 660
ttggtttttc tctgtgaagc aatttttttc tcctttatta gatctaactt gcagtgtatt 720
ttctaggctg gaaagtggaa aatgaaatat attatratct taggttacat aaagtttcta 780
aagtttcaaa gagtcttgat acaaaatcag tttatatctt gaaaatattt ataataaagt 840
attctaattt ctaaaaaaaaa aaaaaaaaaa aaaa 874

```

<210> 541

<211> 549

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (536)

<223> n equals a,t,g, or c

<400> 541

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tggcggttcc cttcacccgc aaccggagag acgaccnccc gggcccgccc cgcggaagcc 60
gccggttgcc aggccaagga gtggactagg gtgcgcgggg aagcggtttg ggagagccca 120
tgggtgactgc gtgagtggag cccagctgtg tggatgcccc agcatggatg actacatggt 180
cctgagaatg attggggagg gctcsttcgg cagagctctt ttggttcarc atgaaagcag 240
taatcagatg tttgccatga aagaaataag gcttcccaag tctttctcta atacacagaa 300
ttctaggaag gaggtgttcc ttttagccaa aatgaaacac cctaataattg ktgccttcaa 360
agaatcattt gaagctgmag gacacttgta tattgtgatg gaatactgtg atggasggga 420
tctaattgcaa aagattaaac agcagaaaag gaaagttatt tcctgaagac atgatactta 480
atggtttacc caaatgtgcc ttggagtwaa atcacattya cawgaaacgt gtgctnccca 540
agagattttt 549

```

<210> 542

<211> 467

<212> DNA

<213> Homo sapiens

<400> 542

```

ggccagccct ggggcgcctt aaaaaccgga gctggcgctt ggcakcgcca ctctgggcag 60
gatccaacgt cgctccagct gctcttgacg actccacaga taccgccgaag ccatggcaag 120
caagggcttg caggacctga agcaacaggt ggagggggacc gccccaggaag ccgccatgga 180
ccagctggcc aagaccaccc aggaaaaccat cgacaagact gctaaccagg cctctgacac 240
cttctctggg atygggaaaa aattcggcct cctgaaatga cagcaggggag acttgggtcg 300
gcctcctgaa atgayagcag ggagacttgg gtgacccccc ttccaggcgc catctagcac 360
agcctggccc tgatctccgg gcagccacca cctcctcggg ctgccccctc attaaaaattc 420
acgttcccaa aaaaaaaaaa aaaaaaaaaa aaaaaaagtc gtatcga 467

```

<210> 543

<211> 1211

380

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1156)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1165)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1190)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1193)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1194)
<223> n equals a,t,g, or c

<400> 543
gtgaaaaaag acactctgac agaagaggag actcagtttt atatagcaga aacagtatta 60
gccatagact ctattcacca acttggattc atccacagag acatcaaacc agacaacctt 120
cttttggaca gcaagggcca tgtgaaactt tctgactttg gtctttgcac aggactgaaa 180
aaagcacata ggacagaatt ttataggaat ctgaaccaca gcctccccag tgatttcact 240
ttccagaaca tgaattccaa aaggaaagca gaaacctgga aaagaaatag acgtcagcta 300
gccttctcca cagtaggcac tcctgactac attgctcctg aggtgttcat gcagaccggg 360
tacaacaagc tctgtgattg gtggtcgctt ggggtgatca tgtatgagat gctcatcggc 420
taccacacctt tctgttytga gacccctcaa gagacatata agaaggtgat gaactggaaa 480
gaaactttga cttttcctcc agaagttccc atctctgaga aagccaagga tctaattttg 540
aggttctgct gtgaatggga acatagaatt ggagctcctg gagttgagga aataaaaagt 600
aactcttttt ttgaaggcgt tgactgggaa catatcagag agagacctgc tgcaatatct 660
attgaaatca aaagcmttga tgatacctca aacttcgatg agtttccaga atctgatatt 720
cttaagccaa cagatgcctt cctgggggat actcctcccc accctaaagg gtcgcctgca 780
acttaggcgg attgggtctc tctgctgtgg cgttctctct tgagagaccc tctgaatttt 840
agcacaaaagt gccttctggt tcacagctgc caccaccttt agaggaattt cgtcagaaaa 900
atgtggaggc tccatattaa tgcattattt tttaaaaagt tttgataact cttaaagcat 960
catttgcacc tatgtgggaa ctttgcctgt tgcaaagtat tgtggccgag ctgcagctgg 1020
gagcctgctt tctgccagtc ttgaggttct gaagatcagc tttgaaagga aagtatgtcc 1080
tagcttagcc attcagaaga gaaaaatggr atatcagagt tacagttgtc agtgaaacta 1140
ctttggattt taaccnctag aggangaaaa aggttaggrg gcactctgtn agnntggggt 1200
gcttagctta t 1211

381

<210> 544
 <211> 1463
 <212> DNA
 <213> Homo sapiens

<400> 544
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 ccctcccgcc aagccatatt ctgttggatg agcttcagtg cctaccagac agcctttatc 120
 tgccttgggc tcttgggtgca gcagatcatc ttcttccctg gaaccacggc cctggccttc 180
 ctggtgctca tgcctgtgct ccatggcagg aacctcctgc tcttccgttc cctggagtc 240
 tegtggccct tctggctgac ttgggccctg gctgtgatcc tgcagaacat ggcagcccat 300
 tgggtcttcc tggagactca tgatggacac ccacagctga ccaaccggcg agtgctctat 360
 gcagccacct ttcttctctt cccctcaat gtgctggtgg gtgccatggg ggcacctgg 420
 cgagtgtctc tctctgccct ctacaacgcc atccaccttg gccagatgga cctcagcctg 480
 ctgccaccga gagccgcact ctgcaccccg gctactacac gtaccgaaac ttcttgaaga 540
 ttgaagtcag ccagtcgcat ccagccatga cagccttctg ctccctgctc ctgcaagcgc 600
 agagcctcct acccaggacc atggcagccc ccaggacag cctcagacca ggggaggaag 660
 acgaagggat gcagctgcta cagacaaagg actccatggc caagggagct agggccgggg 720
 ccagccgcgg cagggtctgc tggggtctgg cctacacgct gctgcacaac ccaacctgc 780
 aggtcttccg caagacggcc ctgttgggtg ccaatggtgc ccagccctga gggcagggaa 840
 ggtcaacca cctgcccatc tgtgctgagg catgttctct cctaccatcc tctccctcc 900
 ccggtctctc tcccagcatc acaccagcca tgcagccagc aggtcctccg gatcacysgtg 960
 gttkgttgga ggtctgtctg cactgggagc ctccaggagg ctctgctcca cccacttggc 1020
 tatgggagag ccagcagggg ttctggagaa aaaaactggt ggggttagggc cttggtccag 1080
 gagccagttg agccagggca gccacatcca ggcgtctccc taccctggct ctgccatcag 1140
 ccttgaaggg cctcgatgaa gccttctctg gaaccactcc agcccagctc cacctcagcc 1200
 ttggccttca cgctgtggaa gcagccaagg cacttctcca cccctcagc gccacggacc 1260
 tctctgggga gtggccggaa agctcccggg cctctggcct gcagggcagc ccaagtcag 1320
 actcagacca ggtcccacac tgagctgccc acactcgaga gccagatatt tttgtagttt 1380
 ttatgccttt ggctattatg aaagagggtta gtgtgttccc tgcaataaac ttgttcttga 1440
 gaaaaaaaaa aaaaaaaaaa aaa 1463

<210> 545
 <211> 536
 <212> DNA
 <213> Homo sapiens

<400> 545
 acccctgcag gtaccggctc ggaattcccg ggtcgaccca cgcgtccgcc catttttccg 60
 gttgataatg caatagataa tgkraaagaa attcaagttg cattgytat cttaatggca 120
 gcttatgcaa tggcggaaagc gtttatgtca acaggagttg gagcttctct taccctaatt 180
 gcattaaaag taggaattac tgctaaaact gttgcagtta taggagctat tgtcacatca 240
 atattatcaa tagcaactgg gacaagttgg ggaacatttg cagcctgtgc acctattttt 300
 ttatggctaa atcatatagt tggcggaaat attttattga caacagcagc tattgcagga 360
 ggagcatgtt ttggagataa tataggactt atttcagata ctacaatagt aagttctggg 420
 atccaaaaag ttgaagttgt aagaagaatt agacaccaag gtgtatggc agcattagtt 480
 ttattatcag gaataatagt atttgctatt gttggattta catggattta cccttc 536

<210> 546
 <211> 588
 <212> DNA

382

<213> Homo sapiens

<220>

<221> misc feature

<222> (572)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (577)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (585)

<223> n equals a,t,g, or c

<400> 546

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ttttttttta atttccatat gggctaaaga atccaaatat tttaaaaatc tgtctctctt 60
ttcttctctc ataaagtga ttattccttt tttttgtttt atgtaagtgt atatattctt 120
agtttttctt gaaatcattg taatgttaac tttgttggtt caaatatctt ggtgattgct 180
tcattatctc ttcaacaaaa aaaaccttta attttgccat tgaaactgta gaactatgcc 240
atgcttttat tagaagcagt gctctgtggt aacaacaaga atggtgtaat tagaattggg 300
atgtggatat ttactgtatg acaacacatt tacagttctg taatgcaagg atgcagttta 360
aaaatgtgaa gtagtgatgg tttttgaaat aagcttttaa atatagggat cttgaaggct 420
ccctggggta actattttat aacttagata aaatggctag tcatatctgt gtgtttgtaa 480
agttattttt ttaatatattt aagrttacia ttttaacaat gtagraatga gccaaacttt 540
taaattkaaa acagtaarac aaatggaaac cnatagntca caaantcc 588

```

<210> 547

<211> 1585

<212> DNA

<213> Homo sapiens

<400> 547

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tttttttttt tttttttatg agcaggagat cttaattgac agaaactcat tgggtggttgg 60
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aatcttatgc acattccatt gtctttgcca agcccagaag ccatgttgtg ttcattgtta 180
agaaatttga tagatttacc cagcttttct atgtattttg acttattgaa aatatgtaac 240
aactgagtcg ggttgacgca ctggtggggt agaatcgact ttccctgaag gtgacacaga 300
tgtcagaatt gtgtccaggg atttaattta gaccataact gtccaggaga ctgtctctas 360
ytggatctct gtgctgactg actgacagac agactttagt gtctgtgtgc tgactgacag 420
actctagtag tgtctatatg ttgaccaact ggttagaccag gaggatctgt gtgctgattg 480
actctagtag gatctgtttg tcaactgacag actgtagtag tgtctgtgtg ctgactgata 540
gatagactat agtaaaattt ggggtgttgcc tgactaacgg tctagggctc gtaagctgac 600
agtctgcctg ctttctgatt gtatccattg aagtgtatgt acattatggg aattctctgt 660
ctattaaatg tgtctaacaa aggaaggaat taagcaactc acrtgttttc tttatagggg 720
agttctgtac actatgattt taaatagata tttcttatat agtagtggcc aaattctcat 780
tattttgtac aagataaagg ttatgcatca cttttatggg attttgtgaa ctcagctaag 840
ggaatgcctg ttcagagcct ggagttgtta cttttacttg aagtcactc atccagtcct 900
ctgctttagg gcaggacttc agttccactg ttcatttctg aagcttctgt gtccccagct 960

```

383

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taccctgttc tgraatgttg tattccattg gacagggctg ctatttttag tcagccatgc 1020
atttggtttt tacrcttaat ctagtaagta aaaatgagaa gaaaatttgg catttaaaaa 1080
ttgatttttaa gggttggcaa aagtattttt tccagtaagc ctttcaactgg atatctgtga 1140
ccaatgttta cctacgcaat gtttttgtat ctgaattgct tatgtacgtt ttttattata 1200
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tgggttgaat gggaatgggt cagattggga agcctaggaa gagagtctta ctgtagattt 1380
cctaggcact gctctgttga aataggaaca taagtcttta gcaacattct gatttaatcg 1440
ggtgacactg ataacaaaagt atgccactca gatccattta aagtgtgcat aactgtattt 1500
gaaatgtgtt tttgtgtgcg tgtgtgtaga atgggtaaat aaaattgttg agtaacttga 1560
acctaaaaaa aaaaaaaaaa aaaaaa 1585

```

<210> 548

<211> 1279

<212> DNA

<213> Homo sapiens

<400> 548

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aggtatccag gccagctggg aaggacatga tgaggaaatt ggaaaaacat atgactgcak 60
agaagggccc catgattgtg ttggtattgg acgagatgga tcaactggac agcaaaakgcc 120
aggatgtatt gtacacgcta tttgaatggc catggctaag caattctcac ttggtgctga 180
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aaaaatgtaa gccacagctg ttgaacttcc caccttatac cagaaatcag atagtacta 300
ttttgcaaga tcgacttaat caggtatcta gagatcaggt tctggacaat gctgcagttc 360
aattctgtgc ccgcaaagtc tctgctgttt caggagatgt tcgcaaagca ctggatgttt 420
gcaggagagc tattgaaatt gtagagtcag atgtcaaaag ccagactatt ctcaaaccac 480
tgtctgaatg taaatcacct tctgagcctc tgattcccaa gagggttggg cttattcaca 540
tatcccaagt catctcagaa gttgatggta acaggatgac cttgagccaa gaaggagcac 600
aagattcctt cctctctcag cagaagatct tggtttgctc tttgatgctc ttgatcaggc 660
agttgaaaat caaagaggtc actctgggga agttatatga agcctacagt aaagtctgtc 720
gcaaacagca ggtggcggct gtggaccagt cagagtgttt gtcactttca gggctcttgg 780
aagccagggg catttttagga ttaaagagaa acaaggaaac ccgtttgaca aagggtgtttt 840
tcaagattga agagaaaagaa atagaacatg ctctgaaaga taaagcttta attggaaata 900
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gaataatata tttgggtctt actattttta ccataaaaag tgaccaggta gacctttttt 1140
aattacattc actacttcta ccacttgtgt atctctagcc aatgtgcttg caagtgtaca 1200
gatctgtgta gaggaatgtg tgtatattta cctcttcgtt tgctcaaaaca tgagtgggta 1260
tttttttgtt tgttttaaa 1279

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<210> 549

<211> 1389

<212> DNA

<213> Homo sapiens

<400> 549

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ggaatgttag atcaccttaa caagaaggag ctccggggcc aactcaagat ggtggacagc 60
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aaggacctgg agcggaggcg ggaagaaaagt cagaccaga tccgagatcc ccacgcagaa 180
tgcacagggt agctgccgct gggcccggag catgctgggc gtccccacct cgcagactgc 240

```

384

```

acgctccaac cgccscetcc acctmctctt tccaggcccc gcagcttctg gagaaggaat 300
tcagcaacct tatctcctta ggcacagaca ggcggctgga cgaggacagc gccaagtctt 360
tcagccgctc cccatccttg cggaagatgt tccgggagaa ggacctccga ggcgtaactc 420
ccgactcagc tgagatgttg ccccccaact ttcgttcggc tgcagcggga gccctgggct 480
ctccggggct cctctccgc aagctgcagc cagaaggcca gacttctggg agttcccggg 540
cagacggcgt ttcggtcggg acctattcct gctagtgcag gcctccaggc gacctcactc 600
ggacggaaga atcttccga ggcctgggctg ttccctctcc tgcctggact gtggcctcgc 660
cggggagagc gggcggggga gctcgcgccg aggactggac catctgtaca gaccagcggg 720
agtgcgcgcg ccgcctcgc acagggccgg ggcctggacc aaaccacatg aactggactg 780
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cccgggtcat ctgcggggcg gktccctctt cctcccccgc tgtctcgtgt ccccgggggc 1140
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cttccccctt tcctctgggt ccgggggttg catgggagaa tcctctttcc acgatgccgc 1260
tgggcgacgt ggcgtggggg cagggggacg gtgggggagc cctcgcccc gactctcggc 1320
cggcctcccc gccccaggcg tcaactcagt atcacgggta aagagaactg tttcaaaaaa 1380
aaaaaaaaa 1389

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<210> 550

<211> 539

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (228)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (508)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (515)

<223> n equals a,t,g, or c

<400> 550

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ggaaggcaag ggtattttttt acaacatcaa aaactttgtc cgattccagc tgagcacgag 120
catctccgcc ctgagtctca tcaactctgc caccgtgttc aacctgcccc gccccctcaa 180
cgccatgcag atcctatgga tcaacatcat catggatggg ccaccggngc agagggtgagg 240
cagggcggct gggagccctg tgtctcttta cctacctgcg gggcttctct caggggctgc 300
tggctgtgcc caaggctata gggatgaaca aatacagcca ctttccatca ggagttccca 360
gaaaactgaa gtgtgttgca ctggagttag actgggagta gaaggcagag gagaaagtac 420
ctgggccggc agagctgggt gaggatggaa ctttctgctt cctctggctg gatgctctct 480
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```

385

<210> 551
<211> 1089
<212> DNA
<213> Homo sapiens

<400> 551
gacactattg aaggtacgcc tgcaggtacc ggtccggaat tcccgggtcg acccacgcgt 60
ccgcggacgc gtggggactg cttagaaata tagctgaagt gatcaccaca gccataaaat 120
tgtttaagaa agatttatat aatgtttaca aatctggaat caaggatttt agctgaaatc 180
ctttaagaga tattagagca agtatttaat tcaggatttt tcaagtttta aaacttaacc 240
tgtttacctt ctaaaaaata aatagctagt tttttctgc atataaaagt tcattgaaat 300
gatatgccct tatgtgcaat acttttccca taaagtttta agtgtgaaag aattgtaatt 360
tactagatat gtttggtatg ggatattttg ttaggcaagt tttctttttt cttctttaa 420
tgcaataggc ttccaaaaag agtataattg tttcagaaca aattaactct tggcattata 480
cgtctccctt tttctttaca gtattagtaa aatgaaaaat tgtacacttt ctgattttta 540
cttcactaat gtaattactc tctcaagaag cttttaaaaa tttaaattacc atcacacaac 600
ctttttatag taaagccaac atttgttctc tcaccaaacc ccatgccaaa ttcacatga 660
agaaagctca gcataagtaa ttcaaatact gcttataatt ttagaggggg gtagaattta 720
gtaaatattc cagccggtcg ttttatgcac aaggcttcag tcagaacata gaaaaaaaaa 780
acattctgtg aatgaaatat tgtatgttca gattttataa aagacatttt taaaagccca 840
atttacagcc gtatattttc ttatgatgta atttatgaaa aagatgtctg tactaacagg 900
tgctgtaaca ctactgttgt tggattttat tgtttggtga taaatgtata caatatattct 960
aagggaact atgtactgtg atgtaaaagt ctgggcaaaa tgtatataat cctgtatata 1020
attatgtatt tgattataat tactgattgt aaagatttaa taaaatatgt aaatatccca 1080
aaaaaaaaa 1089

<210> 552
<211> 1938
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (555)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1521)
<223> n equals a,t,g, or c

<400> 552
actgtgtgca attttatttt gcctcagtga cagtcacttt acagccatat tgggtgcacat 60
gcattagcaa aagargtgca tgccgcgtgc acgtgtgtgg gtgcggcaca gctctccgca 120
gcaagaggta aacaagacaa gcactacggg ggttcaagtt gaagctggag gtcatttttt 180
gccccgtgaa gctgagccct gaagaagaaa gtcacatgt atccatcttt gttacctttt 240
tggatttgac gctgatccag atcctcctgg gaccttcaat ccgctgcttt tacaaggatg 300
aaaaggattc tgatgacttt ttttgaactg tttgggcagg aatgctacag rgagaaycaa 360
tttctgtgaa ctgagagtcc ccagggtgata atttggtgtt tcacacacag gcagtttctt 420
tttaaatgtg tgggtgctttt ttagtcawct ggctttgcaa acccyagtgt ttgaaaaaca 480

386

```

gggatgtagt tcagcagtggt ctgaataagg ctgatgactc agaatcatgc agtgccctggc 540
ttctcaggcc gccgncagcc gggactgctt taggcgcgaa cccacgcttc tgacctgtgc 600
tctgtctttg cagttctgca cggagctaaa ccagccgacc ctgcccaaca tccgcaagtg 660
ggaagggggc ccgggggatgc tggaaaggctg ttgttgctga gaagccctcg aatcagctcc 720
agaaggggagc tgggtatgca ggattcctat gggacgcggc tgccggcatg gagctgagag 780
acgcgggttc acaggagagc tcgccaagca acgggcacgg gaagctggcg ggccccagcc 840
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cagccctgac cctcctgggg agcgagaatc ccagcaagaa tcacagtgat ggccaccggt 960
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taggggattt tggccaaggg ccagagcagc aatgactatg atatcctgag gaaagaaaag 1080
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tcagagcatc agcacttgag nccttgcccc acgccttctc tgtggaccat tcaggacctc 1560
cagtgggggt ggcgtgccag gcgcgtaccc caccagggtg gcaaagcaga aacctgcggg 1620
gagcggagac gcctttttatc tctggatgcc acagacctga gcagcattgg gctggctgtc 1680
cgctgctgac tggatggcag cacaaggaca atatgagcag agggaggaga agaaggggtg 1740
ctcaggctgc gggccacagt ccagcagcgc cagaagcact cttttctgac caccaggcta 1800
tgacgttcct ctgcgcatta cagaaaagctt ttaactgtga tcaggcagtc tgctcagata 1860
cattgagtgg cgatttttag ttttgttttg aaaaaataaa cagattaacc tgcaaaaaaa 1920
aaaaaaaaaa aaattact 1938

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<210> 553

<211> 1442

<212> DNA

<213> Homo sapiens

<400> 553

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ggtccccgtc acgctgactt tccgtgcagt gctgtgggtgc gaaaatgcct cgccgctcyt 60
ggtagacgaa gaggaagaca aacctacagt cgcttccaaa ctctagagtt ggaaaaggaa 120
tttcttttta acccctatct gaccaggaaa agaagaatcg aggtttccca cgccctagcc 180
ytcaccgaga gacrggtaaa aatctgggtc cagaacagga gaatgaatgg aaaaagkaaa 240
acaacaagac aaatttcccc tttcccgcca ggaggtgaag gacggggaaa cgaaaaagka 300
agcccaagag ctggaggaag acagagccga aggcctgmca awttaacytc tacctttaaa 360
atttaccaca gactattaaa actaataatc accatatgct gtggacacca cctattttct 420
ttgttggaaa ggaccttacc tgtgtttcaa gctaccttca tgtcactgct cttgaggttt 480
tctgtgcttt gagagggatt tgggtgttta aaaaagtctc tagtatcaca tagaagctgt 540
ccttgagctg tcctatggaa gggtaatttg atactgacct tgtagctata tttttataat 600
ggtttttaat gtctgagcta gtgatttgcc tcaacaacgt aaacttccta atgattagca 660
cttaataatt gcatataaaa tgctttatta attaaacaag tgcacttgaa catttttaata 720
tttgtgggtg gtaaaattaaa aggagtttat taattaaaaa aaattatgtc tgcagaatac 780
tttatattat ttgattacaa tgtattattt atggattttt tattctttcc ttataatga 840
atagttcggg tgcggtttgt ttactcctaa aagggtttctt tgcgattttt ctaaatgtaa 900
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tgtccaagtt gacaattatt tttctatagt ccatacaaat taaataatct ggcaactctg 1080
gcaaatcgcc ttgtaaaatg cgtctcattt ttttaacttgc tttcggtttg aaccgccctt 1140

```


387

```

gtaatcgcct gaaatcgcta gttctttatg cgggtggcygc cctgtgttcc gttattttca 1200
gtagggtgtca tatttatttg tattgccttt gttctgttcg ccgctgggtt taaaccagct 1260
tgctgtgtgc atctcagacg tcggttggtg cgtcctccgc tgttyttcag gaaagcgata 1320
gcctcaccta tttgaaacaa gccctgagag gaaacgcaga aaaacctgag tgtaaacaac 1380
tccggaatgt cgctagctcc ttagtaaata aatgaatctc tttytggaaa aaaaaaaaaa 1440
aa 1442

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<210> 554

<211> 1446

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<400> 554

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aagaactaaa acgactcact atagggaaaa actananacg cctgacagga aaccggncgg 60
gaattcccgg gtcgaccac gcgtccgaaa ragagggtga ggaggagggt gatgttgata 120
gtgatgaaga agaggaggaa gatgaggaga gctcctcgga gggccttgag gctgaggact 180
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aagaggacga tgagggaagag gatgatgaag atgaagacga cgatgatgat gaggaggatg 360
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ggtacctgac ctccctcccc attgatgacc gcgtgcagag ccacatcctc cacttggaac 480
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gacatcaaag ctgagtcact ggacctagct gtgcccccaa cctagattgg cagcaccacc 600
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gctgaggtca gcctcactgc ctgcttattg cctctttctc agaatectct ttccctccca 780
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ccaagggcgc ttcttctgtg gcagctgcag gccccatgcc tctcctccct ctctggcagg 1260
gccccatcct gggcagaggg gcctggggct gggcccagag tccagccgtc cagctgtctc 1320
tttcccagtt tgatttcaat aaatctgtcc actccccctt tgtgggggtg aacgttttaa 1380

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388

cagccaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1440
 aaaaaa 1446

<210> 555
 <211> 1278
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1228)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1235)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1245)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1252)
 <223> n equals a,t,g, or c

<400> 555
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 atgccacagg ccgagaagga gaagctgttg gcggagatct ccagtgatat cgaccagctg 120
 aatccagagt ccgctgacct ccgggccctg gcaaaacatt tgtatgactc atacataaaag 180
 tccttcccg c tgaccaaagc aaaggcgagg gcgatcttga caggaaaagac aacagacaaa 240
 tcaccattcg ttatctatga catgaattcc ttaatgatgg gagaagataa aatcaagttc 300
 aaacacatca cccccctgca ggagcagagc aaagagggtg ccatccgcat ctttcagggc 360
 tgccagtttc gctccgtgga ggctgtgcag gagatcacag agtatgccaa aagcattcct 420
 ggttttgtaa atcttgactt gaacgaccaa gtaactctcc tcaaatatgg agtccacgag 480
 atcattttaca caatgctggc ctccctgatg aataaagatg gggttctcat atccgagggc 540
 caaggcttca tgacaaggga gtttctaaag agcctgcgaa agccttttgg tgactttatg 600
 gagcccaagt ttgagtttgc tgtgaagttc aatgcactgg aattagatga cagcgacttg 660
 gcaatattta ttgctgtcat tattctcagt ggagaccgcc caggtttgct gaatgtgaag 720
 ccattgaag acattcaaga caacctgcta caagccctgg agctccagct gaagctgaac 780
 caccctgagt cctcacagct gtttgccaag ctgctccaga aaatgacaga cctcagacag 840
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 cttcacccgc tcctgcagga gatctacaag gacttgtact agcagagagt cctgagccac 960
 tgccaacatt tcctttcttc cagttgcact attctgaggg aaaatctgac acctaagaaa 1020
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 attgtttata aagacacatt tacaatttac ttttaattatt aaaaattacc atattatgaa 1140
 attgctgata gtatttgaag actgagtcct gtgtgtttcc caccctagcc cccaggcttt 1200
 cttttttacc ctttttccct ctccccncc tctnccatcc ctctnactct tntccctcc 1260
 cttccttccct ttcttctt 1278

389

<210> 556
<211> 2001
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1979)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1991)
<223> n equals a,t,g, or c

<400> 556
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390

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 <211> 2524
 <212> DNA
 <213> Homo sapiens

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 <222> (308)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (596)
 <223> n equals a,t,g, or c

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391

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<210> 558

<211> 2667

<212> DNA

<213> Homo sapiens

<400> 558

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392

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aaaaaaaaa aaaaaaaaaa aaaaaaa 2667

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<210> 559

<211> 2607

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (74)

<223> n equals a,t,g, or c

<400> 559

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393

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<210> 560

<211> 1837

<212> DNA

<213> Homo sapiens

<400> 560

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394

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<210> 561

<211> 1682

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<400> 561

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<210> 562

<211> 1694

<212> DNA

<213> Homo sapiens

<400> 562

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gggccaaagat ggtgaaaccc cgtctctact aaaaatacaa agaattagct gggcgtggtg 60
```


395

```

gcgggcgccct gtaatcccag ctactcggga agctgaggca agagaatcgc ttgaacccag 120
gaggtggagg ttgcagtgag ccaagatcgc gccactgcac tccagcctgg gcgacagagt 180
gagattccat ctccaaaaaa aaaaaaagaa aaaaaaaga aaagtctctgt gttgatgtac 240
agtttctcct aagaagaagc gaggtggttg aattttggaa gcacttcttg aatcggatta 300
acccatgctc ttattgaatt ttttcactctg ctctgtttag tttgatatta aagcaaaatt 360
aagaggtcct agtttttctc atagaacttt taatatgtca aaagctatat tgtctaaatt 420
tcagtactta agcaaatact gagtagtggt ttaaattcag aaatagagct tctattatga 480
acacatgaga atgatttttt tctcttaatc attattaagg aaatatttta atttcattgt 540
catataatgg tgataagtaa tacctgattg tttccttttc tgttctagta actcagagga 600
gatacgtggt ttatttgtga tagcaaattc ctaaataaac attaggcaag tggatcatt 660
atcaggccag ctgcagcctc ttgccttgac ctgcattcct agaatttctt tgttgctgta 720
attcttgatt aagtgcacct gactttcatt ttgtaatttt gctaatcatt agcaaatcca 780
cttgcatgac gttactgcca aatatgaagg cagttgaatt attatgagtg attgtggcag 840
aggtttgtgc catggtgaaa actttgatgt ttgtctgtgt tcattggatc catcttttta 900
aatgacatta ccatgagtct gttgtcaaac ctaaataatc ttgtttgaat ttaaaatggg 960
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tacatatgga tattaactta aggtaaaaaa gctggatgtg aaggatctga aaaggcatta 1200
atztatgtac taattctata aacatgtatt aataattgca gtattattaa atacagatgg 1260
actcaatgta cttttgaaaa gaccactaat ttagaaaaaca aagctaagtg cagtcattac 1320
aagaagcaaa gaaatactta agttagaaaa aaattaaaaat gaagggatgg tctaagtttt 1380
cttcatgctg gaacaaatgt taaagaagca gtgattgctt acaatgtatg tgataaaaata 1440
atacctttca caatcaaaat tttaatatga aatataagat aaaatttata ttaataaatg 1500
aaaacgtatt tgtactgaat ttagtactca gagaacatcg taacaaaata catgaaacaa 1560
aagtagccag aaatgttaga acaggtggaa atgtatacat ttttgatgg tttgtttttt 1620
tatggaaaata aacaacatac atagaattaa atgggtgatca aaaacatgga aaaaatactt 1680
cactaaaaaa aaaa                                     1694

```

<210> 563

<211> 949

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (867)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (874)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (914)

<223> n equals a,t,g, or c

<400> 563

```

tgcgcgccga gtctgtccct gcgcacccct gtggctttcc tgcaccactg cccccacca 60

```

396

```

ggatgatgga gagtaagatg attgctgcca tacactccag cagtgcagat gccaccagca 120
gttcaaatta tcattccttt gtcactgctt catccacctc tgtggacgat gcattgcctt 180
taccacttcc tgtcccacaa cctaagcatg cttctcagaa aacagtttac tcctcctttg 240
ctaggccccga tgtcaccact gaaccttttg gtccagataa ctgtttgcat ttcaatatga 300
ctccaaactg ccagtaccgt ccccagagtg tacctcccca tcacaataaa ttggagcagc 360
accaagtgtg tgggtgccagg tcagagccac cagcctccat gggctcttct tataacacat 420
atgtggcccc aggaagaaac gcatctggac accactccaa gccatgcagc cgggtcgagt 480
atgtgtcttc tttgagctcc tctgtcagga atacctgtta ccccgagac attccaccgt 540
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ttcccatttc acggacagaa gtccccccag atgatgagcc agcctactgc ccaagacctc 660
tgtaccaata taagccatat cagtctctcc aggcccgctc agattatcat gtcactcagc 720
ttcagcctta ctttgagaat ggccgggtcc actacaggta tagcccatat tccagttctt 780
ctagtctcta ttacagtcca gatggggccc tgtgtgatgt ggatgcctat ggacartcca 840
gttgagaccc tttcaacggc tttccantcg agantttgtt ttttacaatc ctaggttgca 900
aggaaagagc tttntacagt tatgtctgggt ttgggtccag gtccccggg 949

```

<210> 564

<211> 503

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (500)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (501)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (503)

<223> n equals a,t,g, or c

<400> 564

```

aaacagggag aaganaggan agaaaaaggg ggattagtta tatcaaaaag cctggaaagg 60
tgggaatgga ccaaaaagat gggactcctc ctttattcca gcatggaggg ttttaaatgg 120
aggatttcct ttttcctgcg acaaaacgtc ttttcacaac ttaccctgtt aagtcaaaat 180
ttattttcca ggaatttaat atgtacttta gttggaatta ttctatgtca atgattttta 240

```

397

```

agctatgaaa aataataata taaaacctta tgggcttata ttgaaattta ttattctaata 300
ccaaaagtta cccacacaaa aagttactga gcttccttat gtttcacaca ttgtatktga 360
acacaaaaca ttaacaactc cactcatagt atcaacattg ttttgcaaat actcagaata 420
ttttggcttc attttgagca gaatttttgt ttttaatttt gccaatgaaa tcttcaataa 480
ttaaattatg taaaaagtcn nan 503

```

<210> 565

<211> 374

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (357)

<223> n equals a,t,g, or c

<400> 565

```

gtctgagtgg atggacactg cctcttagaa ctagaactta gaactktatc ttgaaaatgt 60
accactgttg cagaagctcc tcacagagta tgtgtcaggc atttttaacc tgctaaaggc 120
aagaagaagt gttcaccaca tagttgcaaa ggtcttcaac ttgccacagc caacagaaaa 180
atcaaaatga ttgaaccctt tgggaatcag tatattgtgg ccaggccagt gtattctaca 240
aatgcttttg aggaaaatca taaaaagaca ggaagacatc ataagacatt tctggatcat 300
ctcaaagtgt gttgttaactg ttccccacaa aaggcaagag aattgtcttc tctttgnttc 360
ccatagcatt ttgg 374

```

<210> 566

<211> 1652

<212> DNA

<213> Homo sapiens

<400> 566

```

agcttatacc agctgaatgg cagccttgcc taatccacct acaacaagaa tttcttaagc 60
tttcttttat ttgcatgaga gagccactac caaggcatgt tttgttatgc tgaaactggg 120
ctgctgcata ctgctaaatg gcacctctgg gattggccta cctggggatt tcttggtttg 180
tgaaaacagg agaggagaaa tatctcatac aagtgaaagg atactggaga gagaaattac 240
ccatttctaa aaaaaaacca cactctgtcg tatctgtgtt aatgttttct agcatgtact 300
ctggtttcaa cagacacaaa tttatatgtt aaccagttt tcttgccgtt ctgtaagtgt 360
tttattctta gtgtgatttt ttccatttgg gatgtttttg attgaacttg ttcattttgt 420
tttgcttggg aggaaaataa acaattttac ttttttccct taggagcatt atgagcatta 480
tgtcagaata gaatagaatt ggggttcgat cttaacaggc cagaaatgcc tgggttttwt 540
tggtttgttt ttgtttttgt ttttttatca aatcctgcct gactgtctgc ttgttttgcc 600
taccatcgtg acatctccat ggctgtacca ccttgctcggg tagcttatca gactgatgtt 660
gactgtyraa tctcatggca acaccagtcg atgggctgtc tgacattttg gtatctttca 720
tctgaccatc catatccaat gttctcattt aaacattacc cagcatcatt gtttataatc 780
agaaactctg gtccttctgt ctggtggcac ttagagtctt ttgtgccata atgcagcagt 840
atggagggag gatttttatg agaaatgggg atagtcttca tgaccacaaa taaataaagg 900
aaaactaagc tgcattgttg gttttgaaaa gggtattata cttcttaaca attctttttt 960
tcagggactt ttctagctgt atgactgtta cttgaccttc tttgaaaagc attcccaaaa 1020
tgctctattt tagatagatt aacattaacc aacataatth ttttttagatc gagtcagcat 1080
aaatttctaa gtcagcctct agtcgtgggt catctctttc acctgcattt tatttggtgt 1140
ttgtctgaag aaaggaaaga ggaaagcaaa tacgaattgt actatttgta ccaaactctt 1200

```

398

```

gggattcatt ggcaaataat ttcagtgtgg tgtattatta aatagaaaaa aaaaattttg 1260
tttcctaggt tgaagggtcta attgatacgt ttgacttatg atgaccattt atgcactttc 1320
aaatgaattt gctttcaaaa taaatgaaga gcagctgtcc ttctttcctc ttttaagtgt 1380
tcagctgtgg catgctcaga ggttcctgct ggattccagc tggagcgggtg tgataccctt 1440
ctttttcagc tgttcgtgcc ttcttttctt gtatccacca aagtggagac aaatacatga 1500
tctcaaagat acacagtacc tacttaattc cagctgatgg gagaccaaaag aatttgcaag 1560
tggatggttt ggtatcactg taaataaaaa gagggcctgg gaattcttgc gattccatct 1620
ctaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 1652

```

<210> 567

<211> 1291

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1192)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1252)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1286)

<223> n equals a,t,g, or c

<400> 567

```

tgaacctcta atagaactgt ctaaccctgg agccagtggg tccttgtttt ttgtgaccag 60
tgatgatgaa tttatcatca aaacagttca gcacaaagaa gctgagtttc ttcagaagct 120
actgccaggc tattacatga atttaaacca gaatccaagg actcttttgc caaaaatttta 180
cggactgtat tgtatgcaat caggaggcat taatatcagg attgtggtga tgaacaacgt 240
tttgccacgc tccatgagaa tgcactttac atatgacttg aaaggctcaa cgtataagcg 300
aagagcatcc cgtaaagaga gagagaaaac caacccaca ttttaaggact tagatttcct 360
gcaagacatg cacgaagggt tgtattttga tacggaaaca tacaacgcgc ttatgaaaac 420
acttcagaga gactgccggg tgctagaaag cttcaagatc atggattata gccttctgtt 480
gggaattcat ttcttgacc attcctcaa agagaaagag gaggagacc cacaatatgt 540
gcctgatgct aagcggactg ggatgcagaa ggttctctac tcaacagcca tggaatctat 600
ccagggtcca gggaaatctg gagatgggat aatcacagag aaccagaca caatgggagg 660
cattccagct aaaagccata ggggagaaaa actactttta tttatgggca ttattgacat 720
tctgcaatca tatagggtta tgaagaagtt agaacattcc tggaaagctc ttgtttatga 780
tggggacact gtttctgttc atagaccaag cttttatgca gacagatttc ttaagttcat 840
gaattccaga gttttcaaga aaattcaagc tttgaaggct tcaccgtcta agaaacgggtg 900
caattcaatc gccgccctaa aggccacttc acaggagatt gtgtcctcaa ttagccagga 960
atggaaggat gagaagcggg atttgctgac tgaaggacaa agtttttagca gccttgatga 1020
agaagccctg ggatcccagc acaggccaga cctggctcct agcactccat cactgtttga 1080
agctgcttcc ttggcaacca caatttcac ttcttcctta tacgtcaatg agcactatcc 1140
acacgacagg cctacactct atttcaaaca gcaaagggtt accttcagk tncaacattt 1200
taccttggga aggggggacc ttttacttgg accgttgggg cccaacattt tnggaagttg 1260

```

399

cagggtgaca ttgtttttgt ggtttngacg t

1291

<210> 568

<211> 442

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (388)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (393)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (398)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (440)

<223> n equals a,t,g, or c

<400> 568

```

gggaaagntg gtacgcctgc aggtaccggt ccggaattcc cgggtcgacc caccgcgtccg 60
gcttttttatt ctgtggaagt aaaatcctga acgtttacaa cttttcctta acttgtaaat 120
aaaaaattgt aagttttttt tttttttaca gaaaacttag cttgtgtaat tctgttagtt 180
tcagattttct ctccgtgttt tgcaaatgtt gggaaagatt gacaatgcaa atgtgtcaaa 240
gacatactgt tgggtgcaat attaacaatt ttaaatgcaa atttctttgg ataaattatt 300
tctatattct gtaaatctga gatttaattgt atattttgtt taaaaaaatg atttagtaaa 360
atctttgaaa agtatgatct tctaaagnat ttnaaaaanaa aaaaaaaaaa aaaaaaaaaa 420
aaaaaaaaaa aaaaaaaaaa aa 442

```

<210> 569

<211> 2084

<212> DNA

<213> Homo sapiens

<400> 569

```

tgctctgtcc cccttaacaa accagggggc atggaggggc ccagggcacc gccccctac 60
caggctcagg ccctccaagg agaacctgct gagacccctg agcctgtcct agacccccgga 120
cccctgaccc ttcccacccc ttccagcgtc ccagggcgag gccttggaca gagctcctgg 180

```

400

```

tcctctgcag ggagaccatc cagcccaagc tctgggagggc acagtccatt gagtgggcgg 240
aggccgcggg tgctgagccg gggaggggtgc tccgagtgcca tccatccctc agacggcaag 300
tcccacaggg tccaaccac ctgaaacctg cctgcacggt ggaagtgggtg gaggtggaca 360
ctcctagggg cttttctaaa gctagactcg cagctccttg ctcaggaaaa ttaaactatt 420
cacgtttcag atcaagtgtt gacagtcacc agtcaggagg agttctttaa gagttttatg 480
ttgactgaat attgcacatt gagtcccatc tgagtccctg gtgggaaaag tccacaattt 540
cccatgata gctttttact gttgtgaaaa aggggaagcgt cagcacacaa aagcctgcat 600
gaccgctgct tcggagaagy tctcgaccct aactgcagtc actgttactt ggatcagatc 660
aagcgcagtg actttttggg attcagtggt tattctccac acttcgtagc catttcaacc 720
aactctgagc acaaaatgca gccatcctct atgcagcaag cctgcccag tcagtgaccc 780
tactggacag atccaaggcc agccctgggt tccctgctgc agccaccgtc ctgacgttca 840
tcggagcagg ccggggctgg ccttcccggc acaagtgggt gttctgacag gccccagtt 900
tgtcccatct gaactgctgg gaggtttccg ggtggccaga ggagcaaagc tgccttccaa 960
gtgcctgtct gtgcctggga gaacagagca ggagcgtcgt gcggtccacc gcgcagtga 1020
tggcgattcc aggcgctgaa caactcccct ggacccttgg gcctgcatct gactcccagc 1080
tgcagagtca gaagctgagt ccaggcaact gcttgccac tcccgatcgc tctccctgg 1140
acaccggtt accaaagtca gcaaagaaga tgcggtaatc gccgcctgat ctccacatgg 1200
tgaacacaac actcccacca acacctcctt gactggctcg tcttcagcac cgggggtggg 1260
caggcaggtg ttctgtgttg acragaattg cacaggttaa acacaaacac ggaaccagag 1320
tgagaacacc tcactcacgg sagcccaggc tgctccctac caggtgacgg agcgcgccgg 1380
ggctgtgggt gccaggggct gagtgtcagg gactcgtcat gagtggggat cccacgttc 1440
ctgtcactgc tgtcaaacag aaggtaaaaca gtcttatgaa tgtatttctt taggaaaact 1500
tgtaaaaact tttattagga tatctattta atactgaact ttggcctact ttgtgataga 1560
ctataaaciaa attgaggaaa tcaactattt tcacttctgt attttctcaa aaataatttt 1620
gttacagagt tcaatatact gtgtaccatt gatcttctat tgtgaaagca aagaatttca 1680
tcaaaatatt ttaaatattg agtgaaaatt gtgtatgtta attttgcagc tataatatta 1740
atcaaatttt gtgtaatctt aatcacaaaa tgacgtgcct taagtgtccc tccagctgtg 1800
ggttggcagt gtccagacag ggagggccca tcaccgaaat cctgaacgat tactagacca 1860
attctattaa aaacatttca aggcattttg ggtgcaaaact ttgtttataa aagagaaata 1920
tccacctatg agaatttaag gagacgtctc ctgtaggcag acatcgctct gcccaaaaat 1980
tagtactgac acatgcgtgt gtgtgcgcgt tgtgtgcgtg tgtgcgtgca cgtgctgttg 2040
ctgcccttcc tagctggtgt gaggaagccc ggacgcgtgg gtcg 2084

```

<210> 570

<211> 982

<212> DNA

<213> Homo sapiens

<400> 570

```

ggcacgagct tacagacgct gccagcatcg ccgccgccag aggagaaatg tctgaagtaa 60
gacccctctc cagagacatc ttgatggaga cctcctgta tgagcagctc ctggaacccc 120
cgaccatgga ggttcttggc atgactgact ctgaagagga cctggaccct atggaggact 180
tcgattcttt ggaatgcatg gagggcagtg acgcattggc cctgcggctg gcctgcatcg 240
gggacgagat ggacgtgagc ctcagggccc cgcgcctggc ccagctctcc gaggtggcca 300
tgcacagcct ggtctgggtt ttcattctac accagactga ggacatcagg gatgttctta 360
gaagtttcat ggacggtttc accacactta aggagaacat aatgaggttc tggagatccc 420
cgaaccccg gtccctgggtg tccctgcgaac aggtgctgct ggcgctgctg ctgctgctgg 480
cgctgctgct gccgctgctc agcggggggc tgcacctgct gctcaagtga ggccccggcg 540
gctcagggcg gggctggccc ccccccatg accactgccc tggaggtggc ggccctgctgc 600
tgttatcttt ttaactgttt tctcatgatg cttttttata tttaaacccc gagatagtgc 660
tggaacactg ctgaggtttt atactcaggt tttttgtttt ttttttatte cagttttcgt 720

```

401

```

tttttctaaa agatgaattc ctatggctct gcaattgtca ccggttaact gtggcctgtg 780
cccaggaaga gccattcact cctgcccctg cccacacggc aggtagcagg gggagtgtg 840
gtcacacccc tgtgtgatat gtgatgcctt cggcaaagaa tctactggaa tagattccga 900
ggagcaggag tgctcaataa aatgttggtt tccagcaaaa aaaaaaaaaa aaaaaaaaaa 960
aaaaaaaaaa aaaaaaaaaa aa 982

```

```

<210> 571
<211> 872
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (865)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (867)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (870)
<223> n equals a,t,g, or c

```

```

<400> 571
gaagcaccct taggatacca ggaccctgtt tcccttcgga gaagacacac aaccatgacc 60
ctcagcctgg ggaccccaac tccaggccct ccagccccaac acctgcccag ccagccctga 120
aaatgcaagt cttgtacgag tttgaagcta ggaaccacac ggaactgact gtggtccagg 180
gagagaagct ggagggttctg gaccacagca agcgggtggtg gctggtgaag aatgaggcgg 240
gacggagcgg ctacattcca agcaacatcc tggagccctt acagccgggg acccctggga 300
cccaggggcca gtcaccctct cgggttccaa tgcttcgact tagctcgagg cctgaagagg 360
tcacagactg gctgcaggca gagaacttct ccactgccac ggtgaggaca cttgggtccc 420
tgacggggag ccagctactt cgcataagac ctggggagct acagatgcta tgtccacagg 480
aggccccacg aatccctgtcc cggctggagg ctgtcagaag gatgctgggg ataagccctt 540
aggcaccagc ttagacacct ccaagaacca ggccccgctg atgcaagatg gcagatctga 600
taccatttag agccccgaga attcctcttc tggatcccag tttgcagcaa accccacacc 660
ccagctcaca cagcaaaaac aatggacagg ccagagggtt gaagcaaaca gtgtcccttc 720
tggtgtgtgt ggagcctccc cagtaaccac ctatttattt tacctctttc ccaaaccctgg 780
agcatttatg cctaggcttg tcaagaatct gttcagtcct tctccttctc aataaaagca 840
tcttcaagct tgtaaaaaaa aaaaanantan aa 872

```

```

<210> 572
<211> 733
<212> DNA
<213> Homo sapiens

```

```

<400> 572
gcctgcgcgg actcccgctt tagtggggcg agttgtgccg cgtctgatgc gcagttccct 60
ttatagcgcg gcaagccgaa tcctagaggc taaccgggca ggtggggagg agaaagttgc 120

```

402

```

tttctgcacc aatagctgag gcgttcaggg ttgtccaggg acgctaccct cacgtgtctg 180
gttccgagtg ctgcgttcgg ctgtgctggg aagttgcgta gacagtggcc tcgagaccct 240
gcctgcctga ggaggcctcg gttggatgcg aaggagctgc agcatccagg ggacaagatg 300
ccaactggca agcagctagc tgacattggc tataagacct tctctacctc catgatgctt 360
ctcactgtgt atggggggta cctctgcagt gtccgagtct accactatct ccagtggcgc 420
agggcccagc gccaggccgc agaagaacag aagacctcag gaatcatgta gaactggggg 480
gctttttctc ctgagcagag agggccaagg catgctgtgg agagacttca cctgccacca 540
tttccaggtc aacaggacta gagcgttgat ggttttcaaa ccctgttgga agaaagtgcc 600
catggtttct ctggttctgc cagtttgaca gtttatggag gcttttgaat cgtaatagca 660
atgtgagggg gaggtacacc tacagacatt aaataatttg ctgtgtcaaa aaaaaaaaaa 720
aaaaaaaaagtc agc 733

```

<210> 573

<211> 569

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (274)

<223> n equals a,t,g, or c

<400> 573

```

gctgactaca gggccgcccg caataaaagc ccaggagccc atttgagggg cctgggcctg 60
gctccctcac tctcaggaaa tgctgaccca tgggcaggag actgtggaga ctgctcctga 120
gccccagct tccagcagga gggacagtct caccatttcc ccagggcacg tggttgagtg 180
gggggaacgc ccacttccct gggttagact gccagctctt cctagctgga gaggagccct 240
gcctctccgc ccctgagccc actgtgcgtg gcgntccccg cctccaaccc ctgcgccagt 300
cccagcagcc agccaaacac acagaagggg actgccacct ccccttgcca gctgctgagc 360
cgcagagaag tgacggttcc tacacaggac aggggttccct tctgggcatt acrtcgcata 420
gaaatcaata atttgtggtg atttggatct gtgttttaat gagtttcacr gtgtgatttt 480
gattattaat tgtgcaagct tttcctaata aacgtggaga atcacaaaaa aaaaaaaaaa 540
aaaaaaaaaa aaaaaagtcg tatcgatgt 569

```

<210> 574

<211> 1718

<212> DNA

<213> Homo sapiens

<400> 574

```

agtaccatcc tcgaggactg tccacgaggg cctgaggaat caggagctga actccacaga 60
gtcagttatg attaatggaa aatattgctg tccaaagata tacttcaacc accgttgctt 120
ctcagggccca tatcttaaca aaggaagaat tgctgagctg cctcaatgtg taggacctgg 180
gaactgtgtt ctggctcctta gagagcctac aaaccacagc gtgtccttcg ggagctccag 240
ctggacaaag actctgtgtg gcacggatgt ggggaagtcc taaaagccaa atataaagga 300
aagagttatc gggctactgt tgagatagtg aaaacagcag atcgggtgac tgaattctgc 360
cggcaaacct gtatcaaact ggaatgctgt cctaacctct tcgggtccacg gatggttctg 420
gataagtgtt ctgagaactg ttctgtactt acaaagacca aatacacaca ctattacgga 480
agaagaaaaa ataaaagaat tgggaggcca cctgggtggg atagtaactt agcttgtgcc 540
ctgaaaaaag ccagtaagag gagaaagagg cggaaaaatg tttttgttca taagaagaaa 600
cgctcctctg catctgttga taatacccca gcgggtctct cccagggaag tgggggtgaa 660

```


403

```

gatgaggatg acccagatga aggggatgat gattccctaa gtgaaggcag tacatccgag 720
cagcaggatg agctacagga agaatcagaa atgtcagaaa aaaagtcacg ctccctcttct 780
cccacccaaa gtgagatatc cacatcgctg cctccagata gacaaaggag aaaaagggag 840
cttcgcacct tttcatTTTT tgacgatgaa aataaacctc cttcaccaa ggaaataagg 900
atcgaagttg ctgaaaggct tcacctggac agtaaccctt tgaagtggag tgtggcagac 960
gttgtgcggt tcatcagatc cactgactgt gctccattag caagaatatt cctagaccag 1020
gaaattgatg ggcaggccct gttgtctcctt acccttccca ctgttcaaga atgcatggac 1080
ttaaaattgg gccctgccat caaactttgc catcacatag agaggatcaa gtttgctttt 1140
tatgagcagt ttgccaactg agaaggacaa ccaaagttag ctggatcttt gaagcacaaa 1200
tgcagcaaat ccttcaccct gctttataag tggagctgga atagtccctgg ggctctgggg 1260
cctgcaggta tcagcttgct ctctttgcac tttcggggaa ggaggactca cagtgaggaa 1320
gcaaaaactg tgcacagaag tggatcacct gctggtggaa atgtggacat ctcttgttca 1380
gcagatggca gtttttataaa aataaagggt gtgaggaaaa gacttatata agaagaaaag 1440
catttccagt ggtgtggcct gaaaacaaaag aataacctag gctgctggaa agcacccttt 1500
tggttgtttt cattctgttc cctcccattg tagattgaac tttgttctct gctttctttt 1560
tcttgaaaag agaggactta gctttaagtc agcactgatt tgggactgtt cctaaggcat 1620
atcagtgcct cattgtcatt gtgtttttaa acttttttaa attaaaacag ttcatttttg 1680
ggatgaaaaa aaaaaaaaaa aaaawraaag tcgacgcg 1718

```

<210> 575

<211> 1544

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1538)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1539)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1544)

<223> n equals a,t,g, or c

<400> 575

```

agtgggatcc aaagaattcg gcacgagggg attaggtaaa agtcttgcag tgaaaaaccc 60
gaggaccctt accgcaagtg tcttttgctc ccagctactg atactggatt ccactcgtga 120
ttctcccttt cttagcgcac tcatgatata gacatcagtc tctgagctgg aggaggacaa 180
aggcagcggg cctgtgaatt ctatgctcta gcttgggtta agggatttgg aattgcactt 240
gtttcagaga gctccctctt tgcccactag cagggcatta gctggtgctg aagacagtgg 300
ctgcttggcg agcctggatc tccaagtgc cccctcagca actcctgatg aacaggactg 360
aagccaatat taaagcaagt caaccaaagg ttctctgggtg tagacaagac agcaaaaagg 420
cagactacct tgtggaacct agcattgttc tccttctgca gcactaagta ctgtgtgcag 480
aaatgtgatt gagattcaag tcagggcctc tctgcccttt tccctccaga aacaaaacca 540
agataattta tcctgaacac ggtgaaaaaa ggaagggagg gaggagaaaa agtccgggtc 600
tcacctggga ttctctgtct cctgcaacat gaaggattta gcctgggagg aggtggtgag 660

```

404

```

aactctggga gagaaaaaag aaggaaagaa tagttttacc catgctgaag ttaattttaaa 720
ccttcaccta gagaagcaaa aaaaaaaaaac ccacactttc ccattttgtg cctcccttcc 780
tagagtttta gccaaagggt tagctaagta attggtttta ccagcgact cactcctcct 840
atcccaagtc tgtttgactc cctccccatc atcctcctca cctcttttca ggcagggtgg 900
ggatagcagc aggaggagat tttgggagcc tggcaactcc tgcaaggacc gcaggacagc 960
ccctctgtgg ggatgcgtgg tgccccatct gccgcccttc tgaagaatgc actgccttca 1020
ctttttactg tgtttagagtc catccagact gtcttatcca aaaaagtttc tttttccccc 1080
acaggcaatc aggaaatgat tcctttcccg actgcttctg tctagtgcct gggaatcttg 1140
agtcaatccc tcagtaagtc agtgactagg gaaatccctc tctgagcctc ccagttcatg 1200
ttgcttaggg aacctgatat tttcgtgaaa cctgcctaca catgggcagc ccaacagcag 1260
aacaatgggt ggtgaccaa gtgaacaaag aagtatagtt gtgccagctt cgtagtgtgc 1320
catgtggaca agtcagcagg atcaggacac gaggaagagt aaatgtgaga cagtcaatgt 1380
gacttctgcg ataaacagat ttttaaacc cgaatttttg caaaattttg gtgaaacctg 1440
aactttcttc gttgcatata ctggcactat ctgtaccatc atacaactgt ctcacattaa 1500
agctattttt cttgggcaaa aaaaaaaaaa aaaaatgnna aan 1544

```

<210> 576

<211> 660

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (74)

<223> n equals a,t,g, or c

<400> 576

```

catcagttct atttaatact tatggcaatt aagagattta gaaagcagag gaaaagacca 60
aaaaaaaaagt atgngttaca aagtgtcatc atgctttagtag gaccccagca ttcttgaaac 120
taacgcacct ttaaaaagta atatttacac tgctgtaaat atttgcaaag tatcaatggt 180
taattcactt agaattttta ggattatgga ttacttagcg aaaattcccc taaagcaact 240
ttcccatatc agtaactttt atttagggaa acaagtttaa tgtacataat acatgtgacc 300
ttggaattca atagaatttt cgaaactaga agtaactcag aacrttcact agatggtttt 360
aaagtcytth ttgatactgt ccytaacatt tgcytatttg cmaattaata tgtaagaatg 420
rgtcyaaaag taagtttttag gaatggttat tcgacaaaga tgttattcct attaccaata 480
ctgcgaaatg ataattacag aaacaatgtg ggatccgttt tataacttca aattttaagt 540
cctttgtact ttggagcaga aaatgtaaga aatcgaaatc aagagttagt attttttatc 600
tttcaggctg gctttaactg ttcatacacc tagcaaaata aacattttgt aaaggcggtta 660

```

<210> 577

<211> 574

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

405

<222> (332)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (532)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (550)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (565)
 <223> n equals a,t,g, or c

<400> 577
 aaatttactc cccagtacaa aggtgtctnt tgatcacagt aacccatagt cccccactgg 60
 ggggacggtg ggggaagact ttgggaggat tttaccacaga atacttgccg cctgcttttt 120
 gtcctccagg aaaccagaag cccgggtaat taggacaaag ccaaaggccc cttgttagct 180
 ggccatccct gccccathtt tccccctggt cctttccctt gtggccacag ggaagtgtgg 240
 cctgaatacc ccaccccggc tcctctgcac ccagagctgg gggccacctc agaagtgtca 300
 tctctctctg agcacgcatt cccctgcagc antcgaggaa tgagcagatt gagtgatgct 360
 ggggcagaga ggcctgggag gaaagggtgtt cagccagtcg tttgtaaggc gctcgtcggc 420
 acctgctgaa acgccccac ctgacagccc catcctcaaa gactgtctta attactcatg 480
 gcaagggttct agagacttaa ggggaaaaagc tgctttaagg ccaccacatg tntgtgctcc 540
 ccaaccagtn tatctggctt ggggntcatt ttggg 574

<210> 578
 <211> 939
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (85)
 <223> n equals a,t,g, or c

<400> 578
 aattcggcac gagccaaagt gcagggatta caggtgtgag tgagccaccg cggccggcct 60
 ctatcathtt ctgactcagc agctncacca aaattgacat cctagcaaac actgtgaagg 120
 aattaacctt agtgcttcca gagcatctca tgtaacctct atggagtaag tcactttttc 180
 tgtaacatgt ggctttttgac cttgatgaag actttgactt ctcacccctg tctacatgga 240
 ggaagatgat tcagtggtgg ggaaaaatgaa cctcggtaac atttccaatg tccttcaaga 300
 gggaaacaag ttcagtgtta tcacgtggc attcgttagt tttttttttt taaatcactt 360
 gtttagatac aactttathtt ttttatacct acatagcaca tgactggggg gataaagcat 420
 gtataagttg ggagagggtt aagaatgtgt gactatgtat acagaaaaata gactaaaatg 480
 tgcagcaaaa tgatatatac tgtaatctgg tttttgaaag atctactatt ctggaatatt 540
 gttaaacaaac tttttgcttt tgaaaaaaaa aggtgccttg attcagttgc gtgacttaga 600

406

```

acattcatcc tattttattg tgatttttaa tgtcttctga ccccaaactg tgtttttggg 660
tgcagtctgg cggctgcagg catagcgtcg gttttgttcc aataacagag accaaagagt 720
taatcagata tggttcagct gctacaattg tatgattcaa aggcaattta atcaccccaa 780
atttccatgg cccccacagt caagacctgc cattcgtttt ctcttgcagg ttggagtaaa 840
tttgcacttt gaatcatgtg ggtcatttgg ggaccttgtt cttttctatt ttgctttatt 900
aataaaggaa cttgtagaaa aaaaaaaaaa aaaaacact 939

```

<210> 579

<211> 778

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (59)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (778)

<223> n equals a,t,g, or c

<400> 579

```

caccagccc ggagatacca tccaccagaa cctgngccat ggcctattag tcctaaagnc 60
agttgtcaaa gcagggtgtg acgtcgggat tcgggaaatt caccagcgtc cgcaacctca 120
gtccctcaag gccatacctg gacccaacgg tgaagaaaga cgatgaggag gaggaccctgc 180
tggaccagct gatctcccgc tctggctgtg ctgcctccca ctttgcagtg caggagtgc 240
tggcccagca ccaggactgg cggcaatgcc agccacagggt gcaggcggtc aaggattgca 300
tgagtgaaca gcaggcgagg cggcaagagg agctgcagag gaggcaagaa caagccggtg 360
cccaccactg agaccccaaa ccacctatcc ccagtagatg gccctgccaa gaccagcacc 420
cagcaagatt atagaggaag aaatcctaaa tgctgggtgtg ggaggtctaa aacatgggga 480
gagtttttgg atctggagtt gagagccatg ggtttggaca tgactggcac aaacagctgt 540
catatgttca tggtcagatg tcatacatc tcagctgtct tgttccacca gtatttacca 600
ggaaaacaaa gaatgtgtta agggatgctc cccaccccca catcttaagt cagtgtgcc 660
agtactgaga tgatttttagg gacattttat tttaaattaa atttacaatc taatggtaaa 720
ttgaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg ggggggggn 778

```

<210> 580

<211> 626

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (432)

<223> n equals a,t,g, or c

407

<220>
 <221> misc feature
 <222> (434)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (470)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (537)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (617)
 <223> n equals a,t,g, or c

<400> 580
 gcgcttcaca gcttctctct cgtctgggat ggtgccc aaa ttgccagctg gcaaaatgaa 60
 taaccgtgat ctcaaaccct agcctgatat agtcttgctt ccgttgccca ctgcctatga 120
 gctagacagc accaaactga agagcccact aattacttcc cccatgttcc gtaatgtgcc 180
 cacagcaaac cccacggagc cgggaatcag acgggtyccg ggggcctcar aggtgatccg 240
 ggagtcgagc agcacaacag ggatggctgt cggmattgtg gctgctgccg ccctctgcat 300
 cttgatcctc ctgtacgcca tgtacaagta caggaacagg gacgaggggt cctatcaagt 360
 ggacgagacg cggaactaca tcagcaactc cgcccagagc aacggcacgc tcatgaaggg 420
 agaaagcagc anantcgaag gagccggcca caagaaacca gaaaaaacn tgggacaggg 480
 gaagtattta acgtggtaaa accattggcg aaaccaactt gggttcaaca accgccnaag 540
 ttttttttca ccaagggtta atttttcctt aattcccaac gggcccttta tttgaaaaat 600
 ctttttttgg ggaaccnggt tggaaa 626

<210> 581
 <211> 645
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (595)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (604)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature

408

<222> (608)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (621)

<223> n equals a,t,g, or c

<400> 581

```

gcttggatta tatctaaatg gattatttgt taaaagtact gaaatgagta taaggcagta 60
tcacccatcc aaaagaaaagg tctttataga cctgcacagt cactagatta attcattaaa 120
atgccccac cctgatgtaa ttgacattac atttcttaac attttaaaat ctagaatttc 180
taaaatggaa tttaatgcca tcacaatttg aaaaactttt tttttttttt tactatagaa 240
gttacaaaagg aagttctaaa attatgcctc cctctgtttt tataagttgc catcgaaaaag 300
tgatttaaat aagcagggtta tctttataga ttttaaaaga aactagaaaag ttytaatgtt 360
ttaacttggg gaaaaataca tctctttaat gtttagcatg cttgtcaacc ttgagtgagt 420
gtcattttta agaacagttg tagcccttct gattattgca gtagctgtag aagtatgtaa 480
gaatatgtga tgggtgtagt cattagcaaa gcatttaaat cacttgagta ttttgatcatg 540
gktcattatt attaaagcac aaaataacct attgttagaa aatatgtgtt ttatnaatga 600
atgnaaanta attaaaaaaa naaaaaaagg ggcggccggt ctaga 645

```

<210> 582

<211> 369

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (339)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (352)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (362)

<223> n equals a,t,g, or c

<400> 582

```

gggagggtat ggggcacact tccccaaggg cggacccagc aggaggaagc ccaggagctg 60
ggtcctgccg cccaggagct gggccctgcc acccaggccg ggctagggac atggcagggc 120
ctgggcatcc tggcgctgga cttgggcgac ctgggaggca cagggagggg agagatgggc 180
ggccccgccc cagcgcatgt ccggccacac ccattgcaccg aagctcctcc ctgccacacc 240
ccaaggcggg tgccggagct taagccccgc cccagcagc gagaacatcc cccccccac 300
ccccctgcag ccagtgtctc ttgtcaagct cccccgtna ctccagtggg anccaccccc 360
gngagggggg 369

```

<210> 583

409

<211> 1269

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (719)

<223> n equals a,t,g, or c

<400> 583

```

gcggaacgcgt gggcggcggc gtycagggtc ggcagcaacc gcagscgagc ccgagcgggt 60
ggcggcgcca tggcgtgcgc ggggctgctc accgtgtgcc tgcctccggc gcccgcgccc 120
cagccccagc cccagacccc gcggcacccc cagctcgcgc ccgacccggg gcccgccgga 180
cacacgctct tccaggacgt tttccgcaga gcagacaaga atgatgatgg gaagctctca 240
tttgaggaat tccagaatta ctttgcgat ggggttctca gcctggggga gctgcaggaa 300
ctgttcagcg gcattgatgg gcatctcacc gacaatttag aaacagaaaa actgtgtgac 360
tactttctag agcacctggg tgtctaccgg ccggtgctgg ctgcattgga atcgctgaac 420
cgtgcagtgc tcgctgccat ggatgccacc aagctggagt acgagagggc ctccaaaagt 480
gaccagtttg tgacrcgctt cctgctgcgg gagacggtga gccagctgca agcccttcag 540
agctcgctgg agggggcgct agataccctg gagggcccagg cccatggctg gcggtcagat 600
gcagagagcg tggaggcgca gagcaggctc tgcggcagcc ggcgggcagg acgccgagcc 660
ctgaggagtg tcagccgggtc atccacctgg tccccggct cttctgacac agggcgcant 720
cagaggccga gatgcagtgg cggctccagg tgaaccgcct ccaggagctc atcgaccagc 780
tcgagtgcaa ggccccccgg ctggaacccc tgcgtgaaga ggacctggcc aaggggcctg 840
acttgacat cctcatggcc cagaggcagg tccagggtggc agaggaaggc ctgcaggact 900
tccaccgagc cctgcgctgc tatgtggact tcacaggggc ccagagccat tgtctgcatg 960
tgtccgcccga gaagatgctg gacggtgcct ccttcaccct gtatgagttc tggcaggatg 1020
aggcctcctg gagaaggcac cagcagtcgc ctggcagcaa ggccttccag cgcacacctca 1080
tcgaccactg cgggccccgg acaccctcac cactgtgttc tccccagcct cctggtggat 1140
aatgaataac aactgagcca gacctgcaca cgcggagggc cccgggagcc tgccctgcctc 1200
tgaaccccag gtgggacccc agcacagagg caataaaggc agtgggtccct tccaaaaaaa 1260
aaaaaaaaa 1269

```

<210> 584

<211> 1943

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1177)

<223> n equals a,t,g, or c

<400> 584

```

gctgatccag aacgtcaccc agaatgacac aggattctac accctacacg tcataaagtc 60
agatcttgtg aatgaagaag caactggcca gttccgggta taccgggagc tgcccaagcc 120
ctccatctcc agcaacaact ccaaaccctg ggaggacaa gctgctgtgg ccttcacctg 180
tgaacctgag actcaggacg caacctacct gtggtgggta aacaatcaga gcctccccgt 240
cagtcccagg ctgcagctgt ccaatggcaa caggaccctc actctattca atgtcacaag 300
aaatgacaca gcaagctaca aatgtgaaac ccagaaccca gtgagtgccg ggcgcagtga 360
ttcagtcatc ctgaatgtcc tctatggccc ggatgcccc accatttccc ctctaaacac 420

```

410

```

atcttacaga tcaggggaaa atctgaacct ctctgccac gcagcctcta acccacctgc 480
acagtactct tggtttgtca atgggacttt ccagcaatcc acccaagagc tttttatccc 540
caacatcact gtgaataata gtggatccta tacgtgccaa gcccataact cagacactgg 600
cctcaatagg accacagtca cgacgatcac agtctatgca gagccacca aacccttcat 660
caccagcaac aactccaacc ccgtggagga tgaggatgct gtagccttaa cctgtgaacc 720
tgagattcag aacacaacct acctgtggtg ggtaaataat cagagcctcc cggtcagtcc 780
caggctgcag ctgtccaatg acaacaggac ctcactcta ctcagtgtca caaggaatga 840
tgtaggaccc tatgagtgtg gaatccagaa cgaattaagt gttgaccaca gcgacccagt 900
catcctgaat gtccctctatg gcccagacga cccaccatt tccccctcat acacctatta 960
ccgtccaggg gtgaacctca gcctctcctg ccatgcagcc tctaaccacac ctgcacagta 1020
ttcttggtctg attgatggga acatccagca acacacacaa gagctcttta tctccaacat 1080
cactgagaag aacagcggac tctatacctg ccaggccaat aactcagcca gtggccacag 1140
caggactaca gtcaagacaa tcacagtctc tgcgganstg cccaagccct ccatctccag 1200
caacaactcc aaacccgtgg aggacaagga tgctgtggcc ttcacctgtg aacctgaggc 1260
tcagaacaca acctacctgt ggtgggtaaa tggtcagagc ctcccagtca gtcccaggct 1320
gcagctgtcc aatggcaaca ggaccctcac tctattcaat gtcacaagaa atgacgcaag 1380
agcctatgta tgtggaatcc agaactcagt gagtgcaaac cgcagtgacc cagtcaccct 1440
ggatgtcctc tatgggccgg acacccccat catttcccc ccagactcgt cttacctttc 1500
gggagcgaac ctcaacctct cctgccactc ggctctaac ccatccccgc agtattcttg 1560
gcgtatcaat gggataccgc agcaacacac acaagttctc tttatcgcca aaatcacgcc 1620
aaataataac gggacctatg cctgttttgt ctctaacttg gctactggcc gcaataattc 1680
catagtcaag agcatcacag tctctgcac trgaacttct cctgggtctc cagctggggc 1740
cactgtcggc atcatgattg gactgctggt tggggttgct ctgatatagc agccctgggtg 1800
tagtttcttc atttcaggaa gactgacagt tgttttgctt cttccttaaa gcatttgcaa 1860
cagctacagt ctaaaattgc ttctttacca aggatattta cagaaaagac tctgaccaga 1920
gatcgagacc atcctagcca aca                                     1943

```

<210> 585

<211> 577

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (78)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (80)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (81)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (82)

<223> n equals a,t,g, or c

411

<400> 585

```

caccgggtccg gaattccccg gtcgacccac gcgtccgggc tctgaaggag gttttcaagg 60
agtatttgat tgaactgngn nngttgcaac actttcaagg gaacatgatg gattttcttag 120
ctttcaagga gagactgtat ggaccattac aagcatatct taggcagaat gatttggaca 180
ttgaagaaga ggaagaggag cactttgaag tcattaatga tgaggtaaag gttgtggcca 240
gaaagcacgg gcagcctggg actcctgttg ccatagcaac ccasstaccg ccgaggactt 300
ctgcggtctt tccagcccag cagcagccgc tccagggtact ttctgatggc tccacagtgc 360
agctccccag actttcctca ctccgatttg aggactcgat gtgctgaggc akgacccaga 420
gggggtccca gagcctgtcc tcttttgttc aaaatacatc ttgaaacgtc tttgtgaagg 480
ctcttagttt taatgcatgg atgctgttat ttttcctac tgttactgaa attaaaaagt 540
gtttgtctct gaaaaaaaaa aaaaaaaaaa aaaaaaa 577

```

<210> 586

<211> 1240

<212> DNA

<213> Homo sapiens

<400> 586

```

gtcgtgtccg cggccccgcc cgcgtcagct ctgcgcggtg attcactccc tccttcgccc 60
cggggccccc ttcccggcca gacggcgggc aagacagctg ggtgtacagc gtccctcgaaa 120
ccacgagcaa gtgagcagat cctccgaggc accagggaact ccagcccatg ccatggcgga 180
ttctgagcgc ctctcggctc ctggtctgtg ggccgcctgc accaacttct cgcgcactcg 240
aaagggaatc ctctgttttg ctgagattat attatgcctg gtgatcctga tctgtttcag 300
tgccctccaca ccaggctact cctccctgtc ggtgattgag atgatccttg ctgctatttt 360
ctttgtttgtc tacatgtgtg acctgcacac caagatacca ttcatacaat ggccctggag 420
tgattttcttc cgaacccctca tagcggcaat cctctacctg atcacctcca ttgtttgtct 480
tgtttgagaga ggaaaccact ccaaaatcgt cgcaggggta ctgggcctaa tcgctacgtg 540
cctcttttggc tatgatgcct atgtcacctt ccccgttcgg cagccaagac atacagcagc 600
ccccactgac cccgcagatg gcccgggtgta ggccgaacttc cctcatttct ctctgcaatc 660
tgcaataaac tcctccattg aaataactcc tccccacccc aacaacaaca ttcccagcag 720
accaactccc accccctctt tgaggtaaaa gtgcctttat tgggagactt ttgtcttcca 780
gcctgccaat caaccctcct ggggtgtggc accatatgtg tgtgcctagg tcctccttct 840
gcacgatcca ataggagaca ccagttctga ctgaaccatg cccccaccta agtcacaaaa 900
tgagggaagt ggggagttag atttcagagt ccaggcccta ggttgggacc cactccaaat 960
aatctcctcg gtgtgggtgg tggttctata gagggataaa tgaataataa acattgttaa 1020
aatatacgat aatgaataaa gtaatccttt catcaaatgt gggtaaattt caagcatcag 1080
gaggggggaaa tggagtggaa acagctgggg caaggaggca aagaagccag gcctgtttta 1140
caacaaatat taaattactt caataatata aacgagaggc ccggtgcggt ggctcatgcc 1200
tgtaattccc agtccttttg gaggtctcgg gaggatgtct 1240

```

<210> 587

<211> 875

<212> DNA

<213> Homo sapiens

<400> 587

```

ggaarggttg taggacttaa tcacgtttca gcttggctgt cgggctgtga gtcacggttg 60
cactgcgatt atgtaagcac gcaggaatag gtggcatgac atatatgctg ccagcagcca 120
cgggcctcgc ccttccgagt caccactact ttttaagcct ttttttggat acaagtttct 180
ttgggttcat ctttgraatg raaatgraag catgattgca gaataggcag amcaggaatt 240

```

412

```

atccatcaat cagagagamc ccagaccttt aagagaagct ggaattagaa tatggaattc 300
ctgagccttg agctggcata gccgagccct ggtttatget ctccctgcct cctccctttt 360
ttccctcctg cctgtgtgct ccacttcctc tcctgagact cccccaaggt agcatcactc 420
ccaccaggag ccttaggcag gaaaagtaag gccagagaa gggactgtcc ctggggacgt 480
gcactgagtg tgtgtgaggg tgccggggcag gaataggagt gccaggagtc tacctctgga 540
gcaatgcctc ccacagtatt tctgtagggg aaaggataga aactcacttc ttgggttcct 600
ccaatcacca tgcacatgtc agtccttcag ctatcaatgc aaaggaaacc cagaactgag 660
atgtgagctt tctcaccatc tccatggtca gatattctcca ctgccaaagg gttcattccg 720
cctctgggtt tatctctttc ttcattgttc ttccctggcag tgcctgtttg aagcttacct 780
tcccatctgt gtttgcattc actccctaaa aactacaaga caaaaaaaaa aaaaaaaaaa 840
tcgagggggg gcccggtacc caattcgggc tatag 875

```

<210> 588

<211> 1517

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (144)

<223> n equals a,t,g, or c

<400> 588

```

gttgagcttt tgggtgtgct tttaatggtc tctctgcctc ttccttaggt gtcaggctgc 60
tctacctgtt tctagacgct cttcctttcc cccttccaaa cctcttttct tccttgctgc 120
tttctatct tctgtggcta gganatcagg taatcaagcc tgtgttttct gtaatgagta 180
agtgggttgc cagcgaggtc tctgtggatg ctctgtgag tcaagtgcag gagcttttagt 240
gcatggactt tgggtccttg gttcccacag cttatatgtt ttgggggctg ctttcttgct 300
ctttaccac attctgtgtc atgagtgtgc cgggtagggt gcctcctgcc cgatggaggc 360
tgagcatctt ggcagtgtcc atcatgcctt gcgtgtgcct ggctcttttg ctgcagatac 420
tatggaccgg cagctcatcc cctgtctacc acctggcctc tccttttctc tgtgtgcaga 480
tctggcagtg tgggtgggtt ctggaaacac acccatgttc ccatgttggc catgttttcc 540
ccaagcaagc tccctactcc cgcaacaagg ctctggccaa cagtgttcgt gcagctgaag 600
tatggatgga tgaatttaaa gagctctact accatcgcaa cccccgtgcc cgcttggaac 660
cttttgggga tgtgacagag aggaagcagc tccgggacaa gctccagtgt aaagacttca 720
agtgttctt ggagactgtg tatccagaac tgcattgtgc tgaggacagg cctggcttct 780
tcgggatgct ccagaacaaa ggactaacag actactgctt tgactataac cctcccgatg 840
aaaaccagat tgtgggacac caggtcattc tgtacctctg tcatgggatg ggccagaatc 900
agtttttcga gtacacgtcc cagaaagaaa tacgtataaa caccaccag cctgagggct 960
gcattgctgt ggaagcagga atggataccc ttatcatgca tctctgcgaa gaaactgcc 1020
cagagaatca gaagttcatc ttgcaggagg atggatcttt atttcacgaa cagtccaaga 1080
aatgtgtcca ggctgcgagg aaggagtcga gtgacagttt cgttccactc ttacgagact 1140
gcaccaactc ggatcatcag aaatggttct tcaaagagcg catgttatga agcctcgtgt 1200
atcaaggagc ccatcgaagg agactgtgga gccaggactc tgcccaacaa agacttagct 1260
aagcagtgac cagaaccac caaaaactag gctgcattgc tttgaagagg caatcatttt 1320
gccatttgtg aaagtgtgtg tggatttagt aaaaatgtga ataagctttg tacttatttt 1380
gagaactttt taaatgttcc aaaataccct attttcaaag ggtaatcgta agatgttaac 1440
ccttgggtatt tagaaaatta aaaccttata atatttttct awmaaaaaaa aaaaaaaaaa 1500
aagggcggcc gctctag 1517

```

<210> 589

413

<211> 871
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc feature
 <222> (12)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (863)
 <223> n equals a,t,g, or c

<400> 589
 gggagcggag gncaggaacc caataagctg cttcgcctcg gagctgaagc ccgtactcaa 60
 gatggcggct ccgggcgggc gtggccagtg actagaaggc gaggcggcgc gggaccatgg 120
 cggcggcggc ggacgagcgg agtccagagg acggagaaga cgaggaagag gaggagcagt 180
 tggttctcgtt ggaattatca ggaattattg attcaractt cctctcaaaa tgtgaaaata 240
 aatgcaaggt tttgggcatt gacactgaga ggccccattct gcaagtggac agctgtgtct 300
 ttgctgggga gtatgaagac actctaggga cctgtgttat atttgaagaa aatggttgaa 360
 atgctgatac agaaggcaat aataaaacag tgctaaaata taaatgccat acaatgaaga 420
 agctcagcat gacaagaact ctctgacag agaagaagga aggagaagaa aacatagggtg 480
 ggggtggaatg gctgcaaata aaggataatg atttctccta tcgacccaac atgatttgta 540
 actttctaca tgaaaatgaa gacgaagaag tggtagcttc agccccagat aaatctttgg 600
 aattggaaga ggaagagatt caaatgaacg acagttcaaa cctgagttgt gaacaggaga 660
 aaccaatgca cttggaaata gaagattctg gtccctcttat tgatatacct tctgagacag 720
 aaggttctgt ttttatggaa actcaaatgc tgcccttagaa atcactccta gatgaaatgt 780
 ttctcataat aacttgtcaa gaacttttta gagttgttac ataaaaataa ttgctgtgta 840
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa t 871

<210> 590
 <211> 1566
 <212> DNA
 <213> Homo sapiens

<400> 590
 ctttcatact accctttagt cataaggaga aaaaaacact caaatagtag aagcagcaag 60
 tagcaaacct caggagagct actttctatc caaataattt aaaaaacact ttccacctac 120
 tcctttcatg gttataaacac attggcagac tttttgctgg ctctgggagc catgatttta 180
 atcacattct gcaagggtgac aaatgtcata cattccacat tgtgtggttag ccatctcttt 240
 agactcatgt gttttgggga aaggaagaag ttcttggctg agtactatct tgaactttcc 300
 agaaccctct cacaccagag acagttcttc tctgttcagt ttccaatccc cgataatttg 360
 ctaaaaataac attgtacatc caagagaggg aagaagagta tgtcagtata ttatgcagaa 420
 gatagataca gccttttcag aagatctcca ctagtttttg ttccaaaaat tcaagtttat 480
 gggagaaaac tcaattagcc accttttcac agttgtgtgg atataacatt tgggggatct 540
 ttctggactc ctacctatct gtgcatttta ccggcacctc aggaaaggag ggtgaccagg 600
 ttgtcttagc ttgtactgct tgggtgatctc tgaggacctt ctaattcagt tgtacccag 660
 tgttccatgt atagaaaaac ttcattagaa caaactttac ttgatatgaa actcctatta 720
 acagtctttt tttgaaataa aaagtagctt gagctttctt ttaaaatcat gtatcttgat 780
 tgttgattta atgaaggatt tccttttaat gctgcttttg agcttcaagg taataggaca 840

414

```

gcaggaacct aaaatatctg ccatcatctg ccataggaaa gataccacaga gacccatcat 900
gttctctttt tgttggttaca ctggtgggtg ggtataacaa ttggaaaatg aacaaactga 960
ttgattgtgc aaactacttt ttatgacaag cctaaaccct cataatgcgg cagcttaaag 1020
tgtatacata tgcactaact ttgatcaatt atattctcat atctgttagc tacacagtct 1080
cctattatct caattgctta tgtgcatatg gaatatgtta cttaaaacgt gtgcattctt 1140
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gccacgattc ttggaaatat gtcttccaag tgccatccat catcagtagg acaagtgtcg 1260
ggagtttgtt tatttttttc cagtagcaac gatgggttac atggagccat gaaacctcct 1320
tctggcctcc cttgtgatta atggcatgtg tttgtaaaaat ggatagctgg ggttggcaga 1380
tggttagaga agaatcgctt ttggtttaaa atgtatgtgg tcccctaata attgtgaccc 1440
cattctgtaa tcaactgagc tagttccaat aaagttaagc aggttttaaat ccactttgtg 1500
cctatctttt cactgacaat aaagttagct attttaaaat gcaaaaaaaaa aaaaaaaaaa 1560
aaaatt 1566

```

<210> 591

<211> 1192

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (298)

<223> n equals a,t,g, or c

<400> 591

```

accttgagtg tccttggcaa cctagccttt gacattgatg tttttccata ggattttctt 60
catttgggtt ggaataaaaa tgcattttta ttcacaaggc acagacagat aagaatatca 120
taagcaggga agtgtctcca aaggtcagga cttatgtttt tctgttgagt gctatatgtg 180
gaggttattg caagttccct gatatgagta tggtttcgct tgctacattg tgcctattaa 240
agtaaaattht tacacaaggc tcgcatttct aagatttagt tccccgaatg aaatgttnaa 300
gaaaacatta aaagattatc tctttttaag atggaggaaa aaaagtgaac aaagctaatt 360
aatctataat gaaaattgca caaaataaca tttcttaaca aatttaatac aattttgtgt 420
tctttgttgc tagtgggtata aaacgagatt tttttccctc atttttctca ttgtagatgt 480
catctctcac atttatatca gtgagggtttg aaattctgtg tagcagttac tcagcacata 540
tgagaggggca gcgaatgaat gagatttgtc atgtgctaata aaaagctgaa tttttgtaat 600
ctaaaatgat gtatttttcta ctattgctgt taatttgcac tgttaaaaaat tcttaaaagt 660
taatatgtta tgttcagtca ttgaaagcga ccactcattt ttttcttaaa gttgatgcct 720
tttctgctgt gctagagtca gtattttgct tctggcagga gagctgcaaa ctgtgtatcc 780
tcaaacagat gcaaaaagta gtgctttgca aaacgtttgt tttctgttta tctcagatta 840
acatcccttta atacaagttt cttaagtgtg acttgtattt ctgaaaaatgc ttaaaaattat 900
tttataatttc cctttgggaa tttttctcta tttccagcac gctgatttga tttaaaaatg 960
taataagacc aagagttgga gtaaagggat attcattcca tgttaaaaagt ggcttcatag 1020
ctactgacaa atgtctgaac tattgtcgtg cccttcaaaa ctggagtttt ctaaaaataa 1080
cttatttttta tacttgtatg ttccagcaat ttaagatata taccattgaa agggaaaataa 1140
aacatttttg tttatttgaa taaataatac tccccaaaaa aaaaaaaaaa aa 1192

```

<210> 592

<211> 401

<212> DNA

<213> Homo sapiens

415

<220>
<221> misc feature
<222> (220)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (361)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (400)
<223> n equals a,t,g, or c

<400> 592
ttattttggaa gacattatTT gtggaacata atggcataac atttacatac gttcacctwc 60
tgacttttgag tatgaatgtg taggtttgtgt atatgtgtga atatatatac accacgatgt 120
catttctaagt gtttggaaat aactgttcat acatgtrgtt taccttcttc cttggaatta 180
ctatctttgta atatggcatt aaagaattat cccatctctn aagtcctttg cctgggaaac 240
atggtgaact ggaggatcct tacacattct gtgtgaccag ctattaaaca gaatgaggac 300
taggtctctc tgtcactgac ttgggaaggt aatgaaatgt tcaggcaacc agtattgaca 360
ncttgcagct tttgccccgg ttttgtttcc caggtgattn a 401

<210> 593
<211> 654
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (58)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (71)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (545)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (564)
<223> n equals a,t,g, or c

<220>
<221> misc feature

416

<222> (592)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (593)

<223> n equals a,t,g, or c

<400> 593

```

gtccggctta ccttttataa cttgaatggt aaggaatgga ccatgggcta ctactggnca 60
ttagtgccat ntaaccagcg ataataaaat tctctattag tctgttaatt tatgaccatg 120
atctcgggaat ggaaaaagat catttccaga gtgtgcgaaa taatagtctt taaccatgta 180
attaaatatg tgtgttttatt gtcaaataag gatttgtttt aaaggtgatt cttggggttg 240
aagacatttg ttaattcatg gtctgtacag aaatgaagct ggttgcaata ccaatctaga 300
gagtccaagc tggcgaaacta ttaagctggt taaagatcac ccttggcctg gcacagtgg 360
tcacacctgt aatcccagca ctttgggagg cctaggcagg cagactgagc tcaggagctt 420
gagaccagcc tgggcaacat ggcaaaaacc cacctctaca aaaagtacaa aaattagtcg 480
ggcgtgatgg caggcatctg tagtcccagc tacttgggaa gctgaagtgg gaggatcacc 540
tgganctctg gatgtggaag ctgncatgag ccatgatcgt gccactacac tnnagcctgg 600
gtgcacagaat gagatcctgt ctcaaaaaaa aaaaaaaatc acccttaaat caac 654

```

<210> 594

<211> 682

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (673)

<223> n equals a,t,g, or c

<400> 594

```

tgggaaggagc agcagttttg caaggtaagc agggcagaga cacagcccat ggccccctcat 60
tgccctgctg gtaagggctg atggarctcc ccgcagcgtg gttcctgcct ggktgacaga 120
ggctcctktg gccacttttag aartgcgggt tactcctcat gccgagatgg accttgggca 180
gctcagttca caagatgttg gtcaggcgtc atttaaataat tttcagtcag cagaggaagc 240
aaagcgtgcc attgaggctg tgctgtcagc ggatcctcgg tctgtgtacc gccggaagct 300
ttgccaggac cgcccttttct actttactgt agacatagcg catgtcactt gctgggtttgg 360
tgatggcttt gcagagggtg tgaggatcaa gccggcttct gagcctgttc atatgactgg 420
ccctgtgggg tccttgggtg ctctaggggc ttaaggagcc tccctcatgt ctttaaggta 480
gcatcattga tctttggatg tggtttttgg attttctgaa caagctaata ttgtgtcrag 540
aagcaacact ttgtgatctc atggctttga ttgatttggg ctgttcaaaa tgttttatttg 600
aaaaacgtat acattaataa acttaacaaa gagatataaa aaaaaaaraa aaaaacccga 660
ggggggggccc ggnacccaat tc 682

```

<210> 595

<211> 1430

<212> DNA

<213> Homo sapiens

<400> 595

417

```

cagtctcagt tggagggctg atartaaacc ttatttggtat ctgtgccttt agccatgccc 60
atagccatgc ccatggagct tctcaaggaa gctgycactc atctgatcac agccattcac 120
aycatatgca tggacacagt gaccatgggc atggtcacag ccacggatct gcgggtggag 180
gcatgaatgc taacatgagg ggtgtatttc tacatgtttt ggcagataca cttggcagca 240
ttggtgtgat cgtatccaca gttcttatag agcagtttgg atggttcate gctgaccac 300
tctgttctct ttttatttgc atattaatat ttctcagtgt tgttccactg attaaagatg 360
cctgccaggt tctactcctg agattgccac cagaatatga aaaagaacta catattgctt 420
tagaaaagat acagaaaatt gaaggattaa tatcataccg agaccctcat ttttggcgtc 480
attctgctag tattgtggca ggaacaattc atatacaggt gacatctgat gtgctagaac 540
aaagaatagt acagcaggtt acaggaatac ttaaagatgc tggagtaaac aatttaacaa 600
ttcaagtgga aaaggaggca tactttcaac atatgtcttg cctaagtact ggatttcatg 660
atgttctggc tatgacaaaa caaatggaat ccatgaaata ctgcaaagat ggtacttaca 720
tcatgtgaga taactcaaga attacccttg gagaataaac aatgaagatt aatgactca 780
gtatttgtaa tattgccaga aggataaaaa ttacacatta actgtacaga aacagagttc 840
cctactactg gatcaaggaa tctttcttga aggaaattta aatacagaat gaaacattaa 900
tggtaaaagt ggagtaatta tttaaattat gtgtataaaa ggaatcaaat tttgagtaaa 960
catgatgtat tacatcatct tcaaaaatag atatgatgga ttctagtga gaccaaatt 1020
acttctgttt actttctatc aggaagcatc tccattgtaa atatgtattt acatgtttat 1080
tacaaagacc caaatgaaaa attttttagtc ctttttttgc atagcctaaa gataaaatag 1140
gaataaaagt tctatattta tggattttct gtatataaaa ctggtttcta attataactt 1200
aagtccatta agtaaaatct gtattgccac tttaaatgta aactaaatta tttgggagaa 1260
acttcaacca ctgatatgag ataagcaatg agaataggga agtgtataac atcacagttt 1320
ttgatgtatt acaaaaatca accactctat aaaataaatt ttttttactt ttggtaatat 1380
ttgcaaatga ataattaatt tattagggta aagaacttat actaagttgt 1430

```

<210> 596

<211> 1597

<212> DNA

<213> Homo sapiens

<400> 596

```

gctagtcctt cggcgagcga gcaccttcga cgcgggtccgg ggacccccctc gtcgctgtcc 60
tcccagacgc gaccgcgctg cccagggcct cgcgctgccc ggccggctcc tcgtgtccca 120
ctcccggcgc acgcectccc gcgagtcceg ggccectccc gcgccccctc tctcggcgcg 180
cgcgcagcat ggcgcccccg caggctcctg cgttcggggt tctgcttgcc gcggcgacgg 240
cgacttttgc cgcagctcag gaagaatgtg tctgtgaaaa ctacaagctg gccgtaaact 300
gctttgtgaa taataatcgt caatgccagt gtacttcagt tgggtgcaca aatactgtca 360
tttgctcaaa gctggctgcc aaatgttttg tgatgaaggc agaaatgaat ggctcaaaac 420
ttggggagaag agcaaaacct gaagggggccc tccagaacaa tgatgggctt tatgatcctg 480
actgcgatga gagcgggctc ttttaaggcca agcagtgcaa cggcacctcc aygtgctggt 540
gtgtgaacac tgctggggtc agaagaacag acaaggacac tgaaataacc tgctctgagc 600
gagtgagaac ctactggatc atcattgaac taaaacacaa agcaagagaa aaaccttatg 660
atagtaaaag tttgcggact gcacttcaga aggagatcac aacgcgttat caactggatc 720
caaaatttat cacgagtatt ttgtatgaga ataattgttat cactattgat ctggttcaaa 780
attcttctca aaaaactcag aatgatgtgg acatagctga tgtggcttat tattttgaaa 840
aagatgttaa aggtgaatcc ttgtttcatt ctaagaaaat ggacctgaca gtaaatgggg 900
aacaactgga tctggatcct ggtcaaaact taatttatta tgttgatgaa aaagcacctg 960
aattctcaat gcagggtcta aaagctgggt ttattgctgt tattgtgggt gtggtgatag 1020
cagttgttgc tgggaattgt gtgctgggta tttccagaaa gaagagaatg gcaaagtatg 1080
agaaggctga gataaaggag atgggtgaga tgcataggga actcaatgca taactatata 1140
atgtgaagat tatagaagaa gggaaatagc aaatggacac aaattacaaa tgtgtgtgctg 1200

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418

```

tgggacgaag acatctttga aggtcatgag tttgttagtt taacatcata tatttgtaat 1260
agtgaacact gtactcaaaa tataagcagc ttgaaactgg ctttaccaat cttgaaattt 1320
gaccacaagt gtcttatata tgcagatcta atgtaaaatc cagaacttgg actccatcgt 1380
taaaattatt tatgtgtaac attcaaatgt gtgcattaaa tatgcttcca cagtaaaatc 1440
tgaaaaactg atttgtgatt gaaagctgcc tttctattta cttgagtctt gtacatacat 1500
acttttttat gagctatgaa ataaaacatt ttaaaactgaa aaaaaaaaaa aaaaaaaaaa 1560
agtcgacgcc aggaatttag tagtagtagt aggcgggc 1597

```

<210> 597

<211> 602

<212> DNA

<213> Homo sapiens

<400> 597

```

ggcaggggtg gagccctcat ggagaacctc tgtaggggca gtgcagaaga gaaatgtgag 60
gtcagagcct tcacacacag tccccactga ggcaactgcc agtggagctg tgagaagaga 120
gccactattc tccagatccc agaatggtag atcaaccaac agcttgcaact gtacatctgg 180
aaaagctgca gacactcaat gccagcctat gaaagcagct tggaatgggg ctgtaccctg 240
caaaggcaca ggggcagagc tgccaagacc atgagagtct acttcttcca ccagtgtgac 300
ctgaatgtga gacatagagt caaaggagat tattttggag ctgtaaaatt caatgaatac 360
cctgctggat tctggacttg tcattggcct ttagccccct tgttttgtcc aattctccta 420
tatggaatgg gagcatcctc atccaatgcc tgtaccctca ttgtgtctta gaagtaatta 480
acttgctttt gattttatag gccatgctaa tcagcattca gttctagatt ccaattttatt 540
ctcagtgtgc ctgtataact tttctttcta tatatatata attaaatttc tattacttat 600
tt 602

```

<210> 598

<211> 432

<212> DNA

<213> Homo sapiens

<400> 598

```

gctcgtgccg aattggtgcg gcgtcagggt cggccgccag gtgagcgcgc tccctggcac 60
cgttggcccc cggaggggtcg ggcccagttg cggcgagcgg attggtttat cttggaagct 120
aaagggcatt gtcacacctg aagatcagct gaccattgac aatcagccat gtcacccagg 180
cctcttgaaa gtccacctcc ttacaggcct gatgaattca aaccgaatca ttatgcacca 240
agcaatgaca tatatggtgg agagatgcat gttcgaccaa tgctctctca gccagcctac 300
tctttttacc cagaagatga aattcttcac ttctacaaat ggacctctcc tccaggagtg 360
attcggatcc tgtctatgct cattattgtg atgtgcattg ccatctttgc ctgtgtggcc 420
tcacgcttgc ct 432

```

<210> 599

<211> 1319

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (591)

<223> n equals a,t,g, or c

419

<400> 599

```

tgtgtgttca caaccaaagt ttgatgcctt tatctactga taatatcctc tcaatgttca 60
ctgaggcata gaaattatct cagagtagaa attgcagcat gaggataaac tcacctcttt 120
gttctgaaaa tagaacttta tcaactatgt ttcgggtggt tttccctttt acaatcgaaa 180
tcttgtgcct cccaagtga ttggaaaatg acaaaagcct gtctctccaa attcctatct 240
aacagtttga tttttttttt ttaatcacca tctttcaaat cttagctcaa ctctcaccaa 300
gtgaaaattg gctacttggg agaaagttaa ctttctatgg tgggatgggt aaggatgagg 360
gacagtttac ataggaaaag aaaaaaaaaa gtctaaagtc catgttgaaa aaccacacta 420
ccacttatct tctgctaacc cttaaattatt ttgcggtata cgcttgaggt tatagtctgt 480
gcctagacct aaaatgcacc agcggggggg attttaaaaa atccttcaaa ataccagttt 540
tttcccaaca agtacaattg ttcttgtgcc ttctgtggtt ttcgatttca nctttttkac 600
tttwtttcca attactacag ctgcaataaa cactagatct tttttctggc tgtttgacat 660
aacgttgata gctatgcata tkttgtgtct ttttaaaaca aagcgggaga atacgttttt 720
gaagaagaga atttttagaa cagtttgata ccgcaaatat ttttctcctc aattgtttga 780
gcagcattcg agttttgaaa attctttagt aagccaattt tttgtaactg tggtgcaaat 840
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tatatgtgtg cgcagatgtg tgaacataaa atcacatata cacatatata cacatgtaaa 960
aatatacata tatatatatg cgtgtgaagt ggaaagctta ccttttctta tctagattta 1020
agaacctatt ttagacattt gttatgtttt gtgaaaagaa tgttctatct gcaacaaaac 1080
atttaattct tactgtatct ctggctgttt aatgaggacg tttcacatta aatggtaaaa 1140
cacatggaag atgttagaat gtagtaatta tttaagtaaa cgttcaccca catattcctg 1200
aagtttgctt tgtgcctccg agtattatct aattaaagaa gtgttttatg tttgcagaat 1260
ctttgtcact gtactagggg tgtgggtgaa tatcatttaa aaaaatttaa aacaacaaa 1319

```

<210> 600

<211> 973

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (746)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (942)

<223> n equals a,t,g, or c

<400> 600

```

ctcacctccg agagctagac tttggccagg catggctaaa accactgggt aacgatgtga 60
cagttatgat cttggagatt ggaaatcttt cttccacatt agagttcttt accttaattc 120
cttattctga aaaattgtaa gattttatga aggtttgaat actgaagcac agttctgctt 180
tcaaaaatta aaattcaaac ttgaaaaagc tgtttaaccc atggaagata tcatctagta 240
agatgtaaaa gattttttta atctacactt cagtttatat atctttatca ttatcaatac 300
tatataagtt actgtgagca ttttagagaa ttccataaag gtactatgag tgtgtctgta 360
tgtgtgtgta tatatagcat tgtatttaat catagactaa atttaatttg atatagaaat 420
actactttac ttgtacatta aggtcataat ttctgctgga ctcttttata ttttaattaa 480
ggggattata gtcttccttc ataaatgcat ttaaacctga aattgaacac cagtgttttt 540
ctttttctac ttatgggaag ttgtctgctt ccccttttag agaaaacagt atttttatat 600
tttgttaaaa tattaactac tttatgccta cacactatgc ttagataact gatcataatt 660

```

420

```

cttgggtggt cacaacact cctagwgcc cttttttggc ccgttgaaag tgttggtatt 720
actactttca ctacagagcc tttggnccct taataatgct gaggtgggct gatccctccc 780
mtttctgtcy tcgggtcatt ctgggtaggg tcttctcctc cactgtcaag gtaaggcaat 840
caggggccgt gacaggggat tgggacatat ggaacaaatt aaggtgggat acacacagt 900
aggaaaagggt acatggcatt ctatggggaa ccaactactg tncaataaca tctgatgtta 960
acatggcaca tta 973

```

<210> 601

<211> 1473

<212> DNA

<213> Homo sapiens

<400> 601

```

ttgagactga ctactgagtc taccttttta atcaagccta acatgaatgg gctccaaaaa 60
gtaatgaatg taattgtact ttttgatgtg cctctgcaact tggcttggtg agtcatcata 120
aatagctgtt aaatatgtga ctttacagat tttgatatgt tcagattgta aaaaatgaat 180
agtttatattc attaattgat gggcagtcac gaatctccct cccttcagta gggctgacac 240
ttaggagtta ggtcatgggt gtggttactt ggcattggcta atcagatttt gttctggtca 300
gaatttgccc aagatcaata ccagcagaa actggagtta ggctataaaa aaccattcat 360
gtttccgagt gatcatttca gtcagcgatt catgttttac agtgtttagt tgttgattat 420
tagaaaaagt aatattttct tccctttatg attacatcat tataaatcaa gtccttccat 480
gaacacattt aaggtgtgtg gagatgagat gtctgaatcc atttggggat gggctgcatt 540
tttggggaac tctatgcctg tccagtgaag agtgcctaaa acattaatta tagatcaaa 600
atgttctgtt gagggacaaa gcttgatggg catcaaacac aaggctttgt aaaaatacga 660
ccacctattc cacttactgg atctgtcagg tgtgtaaaac ttctctcgcc agttcatcat 720
gcttccatga gccctcagga ctgggatttg agccttcctg gctctttatc ccttggggca 780
gacatggaac catctctgag ggaccagggt gatgctgaag ctacccaggt cagggccct 840
ctcctagctc cttttacact gaaattaatc tgaaagcttt catagccaag gctttgctag 900
gtgctattat tccagctggc caaagagaag tcttggggcca gattgggatt ctcaatggat 960
tttatagaca taattccctt gcaaacttaa aaaaataaat aaccctact ttataggact 1020
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acaatatgta atcagagcaa tatagtgtt tcagatatat accttgttt ataccttatg 1140
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tttgggagtg acttaaggcc ttttgaagtg gagcttttgc actttatact ttttctgtga 1260
actatgataa ctatatattga tattaagct gtaagtggca ttttcagcaa atgaatatgt 1320
acatgtttgt gtctatttcc aaaatgattt ctgaactatc tgcagtgaat atgtatctga 1380
tggattgtag agcaaaagcac attgcctaaa ttcatttgtt aatgaattgg gtaccattgt 1440
tattaaaaat gcgtaaagta aaaaaaaaaa aaa 1473

```

<210> 602

<211> 481

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (480)

<223> n equals a,t,g, or c

<220>

<221> misc feature

421

<222> (481)

<223> n equals a,t,g, or c

<400> 602

```

gccttcacat tgggtcttcg gggcttaaaa gcatatcatt cctgattctg cagctggttc 60
tctctccaag cactagcaaa accctgccct aggagcccc agactctgag agcccatgac 120
caaaaagaaa aggaaagcca agttggggaa gaacagggcc cccaactcca cagccctcca 180
ctctssccag agggcccacc ctgggctgcc tggaaacccc taaagttgcc acccccgcaa 240
cacagtagtg gggcagttcc tggcagcgcc tgcagcccat gggctggctc tgtacccgca 300
gccccgcaa gcgtctgtta tcttatctac tggaaatctg acagccaggc tctagctcac 360
cgggtgactaa ggagctgcag ccattattac caggcagatg gcagactccc taaaagcaga 420
cattaaacaa taaaatgcc ccacatacct tgcccacaaa ataaaatcaa aacaaaccan 480
n 481

```

<210> 603

<211> 1667

<212> DNA

<213> Homo sapiens

<400> 603

```

gggaattatt tcacaatact gatagtactg ggaattgtka aataattcct ctgaaagata 60
agaatcactg gcttctatgc gcttcttttc tctcatcatc atgttctttt accccagttt 120
ccttacatct ttttaaatgt tttcagagtt tgtttttttt ttagtttaga ttgtgaggca 180
attattaaat caaaattaat tcatccaata ccccttttact agaagtttta ctagaaaatg 240
tattacatct tattttttct taatccagtt ctgcaaaaat gacctataaa tttattcatg 300
tacaattttg gttacttgaa ttgttaaga aaacattgtt tttgactatg ggagtcaact 360
caacatggca gaaccatttt tgagatgatg atacaacagg tagtgaaaca gcttaagaat 420
tccaaaaaaa aaaaaaaaaa aaaaaaaaaa gmaaaactggg tttgggcttt gctttaggta 480
tactgggatt agaattgagt taacattagc taaaactgct ttgagttgtt tggatgatta 540
agagattgcc atttttatct tggaaagaact agtggtaaaa catccaagag cactaggatt 600
gtgatacaga atttgtgagg tttgggtggat ccacgcccc ctccccact ttcccatgat 660
gaaatatcac taataaatcc tgtatattta gatattatgc tagccatgta atcagattta 720
tttaattggg tggggcaggt gtgtattttac tttagaaaaa atgaaaaaga caagatttat 780
gagaaatatt tgaaggcagt acactctggc caactgttac cagttgggtat ttctacaagt 840
tcagaatatt ttaaacctga tttactagac ctgggaattt tcaacatggg ctaattattt 900
actcaaagac atagatgtga aaattttagg caaccttcta aatctttttc accatggatg 960
aaactataac ttaagaata atacttagaa ggggttaattg gaaatcagag tttgaaataa 1020
aacttggacc actttgtata cactcttctc acttgacatt ttagctatat aatatgtact 1080
ttgagtataa catcaagctt taacaaatat ttaagacaa aaaaatcacg tcagtaaaat 1140
actaaaaggc tcatttttat atttgtttta gatgttttaa atagttgcaa tggattaaaa 1200
atgatgattt aaaatgttgc ttgtaataca gttttgcctg ctaaaattctc cacattttgt 1260
aacctgtttt atttcttttg gtgtaaagcg tttttgctta gtattgtgat attgtatatg 1320
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tacagctgtg aagacttgcc tttgtttctg ttgactgct tttcagttct gtattgagta 1440
tcttaagtac tgtagaaaag atgtcacttc ttcccttaag gctgttttgt aatatatata 1500
aggactggaa ttgtgttttt aaagaaaagc attcaagtat gacaatatac tatctgtgtt 1560
ttcaccattc aaagtgtgtt ttagtagttg aaacttaaac tatttaatgt catttaataa 1620
agtgaccaa atgtgaaaaa aaaaaaaaaa raaaaaaaaa aaaaaaa 1667

```

<210> 604

<211> 1193

422

<212> DNA

<213> Homo sapiens

<400> 604

```

ctaacgtatt catgccttgt atttgtacag cattaatctg gtaattgatt attttaaatgt 60
aaccttgcta aaggagtgat ttctatttcc tttcttaaag aggaggaaca agaagatgag 120
gaagaaatcg atgttgtttc tgtggaaaag aggcaggctc ctggcaaaag gtcagagtct 180
ggatcacctt ctgctggagg ccacagcaaa cctcctcaca gcccactggt cctcaagagg 240
tgccacgtct ccacacatca gcacaactac gcagcgctc cctccactcg gaaggactat 300
cctgctgcca agaggggtcaa gttggacagt gtcagagtcc tgagacagat cagcaacaac 360
cgaaaaatgca ccagccccag gtcctcggac accgaggaga atgtcaagag gcgaacacac 420
aacgtcttgg agcgccagag gaggaacgag ctaaaacgga gcttttttgc cctgcgtgac 480
cagatcccgg agttggaaaa caatgaaaag gcccacaagg tagttatcct taaaaaagcc 540
acagcataca tcctgtccgt ccaagcagag gagcaaaagc tcatttctga agaggacttg 600
ttgcggaaac gacgagaaca gttgaaacac aaacttgaac agctacggaa ctcttggtcg 660
taaggaaaag taaggaaaac gattccttct aacagaaatg tcctgagcaa tcacctatga 720
acttgtttca aatgcatgat caaatgcaac ctcacaacct tggctgagtc ttgagactga 780
aagatttagc cataatgtaa actgcctcaa attggacttt gggcataaaa gaactttttt 840
atgcttacca tctttttttt ttctttaaca gatttgtatt taagaattgt ttttaaaaaa 900
ttttaagatt tacacaatgt ttctctgtaa atattgccat taaatgtaaa taactttaat 960
aaaacgttta tagcagttac acagaatttc aatcctagta tatagtacct agtattatag 1020
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tctattgttt ttagaaaaaa taaaataact ggcaaatata tcattgagcc aaatcttaaa 1140
aaaaaaaaaa aaaaggtcga gccggccggc taattagtag tagtaggcgc cgc 1193

```

<210> 605

<211> 438

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (386)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (430)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (438)

<223> n equals a,t,g, or c

<400> 605

```

aatgccaaaa gtacttcccc tgtttccaca agctcgttta catcctcagc ccttgagaag 60
cccagtcagg aagcataacc tgatagcttg ggctgatgca atmacagaaa ctctggcctg 120
ctgtagcttt tgttctgctt aaagtgcagg cagagcagag cagagcagta attggctgtg 180
aatgaaaggg gattgtcaga atgagcctaa gttccggwtc taccaccgca gtttcgtatt 240
tgggccctgt ttttaagccag ggtggctggt tgggtgaaggt catgtgcgac ctcaggaggc 300

```

423

```

tgtcttgtca cctccctcat gtcaatagga agggaggtat tctccctcct ccagaatata 360
caggataatc tgtcttgctt gctaanagca ttcacctttg acctttgcat tctttgggtc 420
tggagatgtn tatgatchn                                     438

```

<210> 606

<211> 2674

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (75)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (206)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1782)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1923)

<223> n equals a,t,g, or c

<400> 606

```

gttcgscgc acagcagccc gagcgcccc tttccrgagc tccccctcgg agctggggatc 60
caggcgcgta gmggnatccc aggatcctgg gtgctgtctg ggcccgcctc ccaccatgac 120
ctcctcgggg cctggacccc ggttctctgt gctgctgccc ctgctgctgc cccctgcggc 180
ctcagcctcc gaccggcccc ggggcngcag acccgggtcaa cccagagaag ctgctgggtga 240
tcaactacac tgtgcggacc ctgggcctgg gagaggagtg gcgagggggg gatgtggctc 360
gaacagttgg tggaggacag aaggtccggt ggtaaagaa ggaaatggag aaatacgcctg 420
accgggagga tatgatcatc atgtttgtgg atagctacga cgtgattctg gccggcagcc 480
ccacagagct gctgaagaag ttctgtccaga gtggcagccg cctgctcttc tctgcagaga 540
gcttctgctg gcccgagtgg gggctggcgg agcagtaccc tgagggtgggc acggggaagc 600
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tcaacggggc tttagatgaa gtggttttaa agtttgatcg gaaccgtgtg cgtatccgga 840
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tcaactacct gggaaactac gtccccaatg gctggactcc tgagggaggc tgtggcttct 960
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actatcccc cgacagggtc acccttttcc tgcacaacaa cgaggctctc catgaacccc 1140
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cggaggaggc tctgagccca ggcgaggcca gggacatggc catggacctg tgtcggcagg 1260

```

424

```

accccgagtg tgagttctac ttcagcctgg acgccgacgc tgtcctcacc aacctgcaga 1320
ccctgcgtat cctcattgag gagaacagga aggtgatcgc ccccatgctg tcccgccacg 1380
gcaagctgtg gtccaacttc tggggcgccc tgagccccga tgagtactac gcccgtctcg 1440
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cccaggccta tgtgatccgg ggtgataccc tgcggatgga gctgccccag agggatgtgt 1560
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taaatatta atgttccgca gtctcactct gaataaagga cagtttgtaa aaaaaaaaaa 2640
aaaaagggcg rccgctcgcg atctagaact agtc 2674

```

<210> 607

<211> 1609

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1593)

<223> n equals a,t,g, or c

<400> 607

```

cgggtcgacc cacgcgtccg cggacgcgtg ggtgtcgatg aaatcaagag tgtgatgttc 60
tagttatttt tttttatata tattttttaa tgttcaatat tcaactattg aaacaaatgt 120
acatctgtga actagctaaa atcatcttat gtaccactaa tatgccacgc acattttgta 180
aaacagtcct gatthtggcct ccaagggtat ttattgaact accagcagta tctaggagac 240
cacgaaggaa taccacgaag gaatttatgc tccagtgcct gccataattt gtctgagaag 300
gaatctgtta aataaaaagct tttatcctct aacctttacc ttcatcagac cttataaaaag 360
gtcaaatggt gatcttaagt tttttagtca caaatcttac ttattcagta ttagtgcgaa 420
gagtagaata ctttcaagta agcctaaact tacatgaaam caaattacat aaatctagct 480
ctgagaatag gaaattagtg acaagatcaa tctgtaagat gttgagcact tatctgaagt 540
aaatgggtaa tgagttttcac atcttataaa tacaagttag catgtgtttt ctcaagagtc 600
caagggtttt cattattgga ctacagcttt aatcttctaa atgttattcc ccaagattaa 660
agagcatctc aagtttagatc accaaagatc aaaagctaaa accagaagta tttttgtcat 720
tgtggtggtg gtagtgttac taattgccta gattttttaa gggaaacatt tttttcactg 780
ggttgtttcg ttgaaaaaaa tagaagcaga aacttgccca aagtcacagt ggtcaaaactg 840
gaaattgcac caaaacttgg catactggtt ctgaaatcca tagtttttag ccttatgtat 900

```

425

```

actggttaat ttggaaggaa gaaatatata cgttctgaag tgaagagtga gtgaaaggaa 960
gaattcagtg aatacattga taccttgata ttatctgcat tgtggctaca tgttactttt 1020
cttcacaaga gtgatataag tgaaataaag aatgattgga ctgggaraaa aatggctcag 1080
aaaactttgc aaaagtayga ctgtatgtaa agataagtat tcaacattaa atgggaagga 1140
ggagagcaag cagtttaata tatagaattt tataatttta ggctgcaag ggaccttata 1200
aaacatgagc aatggaacac ttttttccaa actaaatttc gtgcagtgga acttggccga 1260
ctctgtcctt cctctattct aagcacccta ctctagcccc gctgctctga gttcagtttg 1320
ttacaaatat ggacacgaaa gtaccacagg ctttgcacag ctttaattgaa gtttccccct 1380
cacaccatgg taaaaaaaca tactgggatg gaagggtttg tgtctagaac argaacaaga 1440
aataaactct tggtcactta ctaatatctt aaaatcaca agcagaattt tgcttggatg 1500
kttaktaaaa catccttgga aatttaactg cttgcagctt ctaccttytt cattaaatgc 1560
tgtctggcta ataaaaagtg ccatgtgcag ctntatttta atttcaatt 1609

```

<210> 608

<211> 920

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (202)

<223> n equals a,t,g, or c

<400> 608

```

gacacgaagt ccgagaaatt gagcagcgac atatcaacac taccaaaaat aatccagtga 60
tgtcattgca agatcagggt cgctttgtaa agaataaac ttcttgaaa gagatgaaac 120
caggatttta tcatggacac gtttcttact tggattttgc aaaatttggg gtgaagaaaag 180
aaaccaatth acattaatgt cntaagggat cctattgaga ggctagtthc ttattattac 240
tttctgagat ytggagatga ttatagacca gggttacgga gacgaaaaca aggagacaaa 300
aagacctthg atgaatgtgt agcagaagggt ggctcagact gtgctccaga gaagctctgg 360
cttcaaatcc cgthcttctg tggccatagc tccgaatgct ggtaggggag ataaagtthg 420
ctcagattga ttatcatcct tattatctct ataatctgtg tttcatttca caagggctag 480
atatagggaa atcggtgaaa gactagacta aaaataacat gtaattcagt aatatctagt 540
tttgcagtta ctttttaaat catttaaaag attcctcatg tagagtgata tcctaataatc 600
cttgcattgt tttctgagat gccggthttt agtatttctt atttttgggt ttatgttttg 660
ctgtattcca gcagagctct tagagactgg ggggtgggggt gggkgtcata aatcttattt 720
tgtccaaaag ttactgttht agctattcat gttaaattaa gaaaaggctt agtgggttaa 780
aattcacctg gttttactgt taaactgatt ttgactttta gagaagccaa ggttatggct 840
gtggtttagt ttgctagtaa atatcaagtg gaaaataaag atactttaat aaaaactgta 900
tttctcaaaa aaaaaaaaaa 920

```

<210> 609

<211> 283

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (60)

<223> n equals a,t,g, or c

426

<400> 609

```

acgccccgcag gtaccgggtcc ggaattcccg ggtcgaccca cgcgtccgaa ggaagaaggn 60
gggaaacctc aaatgaattc tgaaggggag ataccttccc tgccatcagg cagccaatct 120
gcaaaaccag taagccagcc caggaaatca acccagccag atgtttgtgc ctctcctcaa 180
gaaaagccac tcaggactct gtttcaccaa cctgaggaag agatagaaga tgggtggactc 240
ttcattccaa tggaagacaa gacaatgaag aaagtgagaa aag 283

```

<210> 610

<211> 498

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (411)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (417)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (464)

<223> n equals a,t,g, or c

<400> 610

```

aaagcccaac ncccccgtaa acccagaatc tcccatatgg taacctgtgt gatgctccgg 60
attctcctcg ccagtgag gcatcaaggg aagatagtg tttatttagt cctattcgat 120
cctctgcttt tagtcctctt ggaggctgta ctccagctga atgtttttgc caaacagata 180
ttggtggaga taggattcat gaaaatcatg attctgttta ttacacctat gaagactatg 240
caaaaagcat ttcatgtgaa gtactaggct cagttcttcg taccacccat actaataccc 300
tatcaaatat taacagtatt aaacatggag aaaataaaac tgtaactttt aagcatggaa 360
accttgatca aaaaaataaa tctaaaaata aatccttaat gaaaaaaaaa nattaanaaa 420
aaagggcggg cgctctagag gatccaagct tacgtacgag tgcntgagac gacatagctc 480
ttctatagtg tcacctaa 498

```

<210> 611

<211> 1069

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (176)

427

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1060)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1061)

<223> n equals a,t,g, or c

<400> 611

```

cctttgaaat acccctcact aaaggggaaca aaagctggag ctccaccgcg gtggcgggccg 60
ctctagaact agtggatccc ccgggctgca ggaattcggc acgagcggca cgaggtatcc 120
acagggccac agcgacacca ctgtggctat ctccacgtcc actgtcctgc tgtgtnggct 180
gagcgtgtg tctctcctgg catgctacck caagtcaagg caaactcccc cgctggccag 240
cgttgaaatg gaagccatgg aggctctgcc ggtgacttgg gggaccagca gcagagatga 300
agacttgga aactgctctc accacctatg aaactcgggg aaaccagccc agctaagtcc 360
ggagtgaagg agcctctctg ctttagctaa agacgactga gaagaggtgc aaggaagcgg 420
gctccaggag caagctcacc aggcctctca gaagtcccag caggatctca cggactgccg 480
ggtcggcgcc tcctgcgcga gggagcaggt tctccgcatt cccatgggca ccacctgct 540
gcctgtcgtg ccttggaacc agggcccagc ttcccaggag agaccaaagg cttctgagca 600
ggatttttat ttcattacag tgtgagctgc ctggaataca tgttgtaatg aaataaaaaac 660
cctgccccga atcttccgtc cctcatecta actttcagtt cacagagaaa agtgacatac 720
ccaaagctct ctgtcaatta caaggcttct cctggcgtgg gagacgtcta caggggaagac 780
accagcgttt gggcttctaa ccacctgtc tccagctgct ctgcacacat ggacagggac 840
ctgggaaagg tgggagagat gctgagccca gcgaatcctc tccattgaag gattcaggaa 900
gaagaaaact caactcagtg ccattttacg aatatatgcg tttatattta tacttccttg 960
tctattatat ctatacatta tatattattt gtattttgac attgtacctt gtataaacia 1020
aataaaacat ctattttcaa aaaaaaaaaa aaaaaaaatn nctgcgggc 1069

```

<210> 612

<211> 899

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (116)

<223> n equals a,t,g, or c

<400> 612

```

gctttgtatt gcttatattg catctgagat tgtttgtatc ttttttcctt gactagtctt 60
gctagagggt tatcatattt attgtttttg ctttacaaag aagccaatat ttttgnnttt 120
cttctttgtt atattttctc tattttgttg atttcagctt tttcttttct atgttaatat 180
gtcatattat tgtagtggat ggtagctct tcaaattttc aactttctat tctgattttac 240
atatttaaag ctatagattt ccatgataat gctactttat ctcttgcggt agttttctat 300
gctgggtaac aaattaccac aggtttactg gtttataaca gcataatttt attatctcac 360
aatttcttgg ggtaagagt ttcagcatgg cttaactggg tctcacaagg ctgcagtgaa 420
gtcagctgaa ctryrttgtc atctggagct cacagttctc ttctaaatta atcagattgt 480

```

428

```

tgataaaact tagttccttg aagctgtaga actgaggtcc tcagctactt agggctgctc 540
ttttatataa gcagtgtaac gtgacatgcc tttttaaggt cagcagaact tctgactaga 600
atctgtttca gagaaggcca gaaagagttc acttggktag gtcagagwca cctgggatag 660
tctccctttt gattaagtca gagtcaacta aataggcacc ttaattgcat ctgcaaaatc 720
ctttcacttt tgccatattc tcttactaaa tgtaacaggc gttgtccaca caaaggatatg 780
gatatcgggc ttggaaagga tttcaggaac catcttagaa ttctgcctac tactaactcc 840
attctacaag tctcaatatc tagcatttta gttattcact aactgcaaag ttttttatt 899

```

```

<210> 613
<211> 532
<212> DNA
<213> Homo sapiens

```

```

<400> 613
gaacactaaa cagactattt aacttgaggg taataaactt agaataaaat tgtaaaattg 60
tatagagata tgcagaagga agggcatcct tctgcctttt ttattttttt aagctgtaaa 120
aagagagaaa acttattttga gtgattatgt gttatttgta cagttcagtt cctctttgca 180
tggaatttgt aagtttatgt ctaaagagct ttagtcctag aggacctgag tctgctatat 240
tttcatgact tttccatgta tctacctcac tattcaagta ttaggggtaa tatattgctg 300
ctggtaatgt gtatctgaag gagattttcc ttccctacacc cttggacttg aggattttga 360
gtatctcgga cctttcagct gtgaacatgg actcttcccc cactcctctt atttgcctac 420
acgggggtatt ttaggcagggg atttgaggag cagcttcagt tgttttcccg agcaaagtct 480
aaagtttaca gtaaaataaat tgtttgacca tgaaaaaaaa aaaaagtcga cg 532

```

```

<210> 614
<211> 511
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (460)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (503)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (508)
<223> n equals a,t,g, or c

```

```

<400> 614
gctttgaaac caattgcaga ttgcttggtt ttatacaaac tttgattagt ctttggcagt 60
agaaggcagt ttgctaaagt ggctttacac ttgggattat gctgtttctt tgggtgataca 120
taaagttcac attttttttt ttataacttc atgggtcaaga gcttgggaag aaagcccaag 180
tctcacttga ggacctgatg taattgcttc tctttgagct ccgaagaaaa gattgaggag 240
ctgctctttt gatttgggga gtgagcaggt taagtgcctt tactttactt tgscacccty 300
gtacagacaa agtccggtta caaaggcggg taactccaat gtgctattct ttttttytta 360

```

429

```

ccagcttttac tggggataat gcacatactg tacaattcac ccacttaaag tgtacaattc 420
agtggggtttt agttttattca tgggggttgt gcaacccttn accataaatc tatttttagg 480
ggcacttttcc atcatctcag ggnggaancc t 511

```

<210> 615

<211> 505

<212> DNA

<213> Homo sapiens

<400> 615

```

gctcggcgag atccagtcca cagcttgctt cactcttaga acagcggcat cctctatttg 60
gtctcgcacg gggaaacttg tggggtaggg gagaggtgtt agagctttga aaaagctttg 120
cctctcggag gagtcaaagg ggcagtaact gtatgggggt agaggaaggc ctgcgaaata 180
aaaaggcaaaa ggaaccgttt gaggaggcta gttgccttct cggggccggg gtgtgtgcgg 240
gggtagtggt aagggggagg aaggagcccg kgagcccggg ggaccctccc ggaggtgcgg 300
gcctgaaaatt ccgctgggtg ccgggagggt ccgccctccg gagtactgac ggccttcgca 360
gccaatgcgc agccaggacc tcgcgttcgg gagggcggtt acttctact ccagccctgg 420
gctcggagaa ggccgcgtta gttctttttc tagggatgtc tgcggaaggg gcgccagggt 480
gagggccagc ctggagaaa gaaaga 505

```

<210> 616

<211> 778

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (226)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (253)

<223> n equals a,t,g, or c

<400> 616

```

tagggttcta ggccctgtt cctggggact tgaaggcggg tttacatact ggtcagacac 60
ggctggaggc caaggtcaag ttgaaagtgt cagtccagcc agcatgagaa ctgccatgcg 120
agcgtagaga cacaggcagc agcaaaaagg ccattgccca catccctca ctcttaattt 180
tctctctctt tttaaaattc tcgcctctga ctgttcgggt gcccanaatt ttttgggtgcc 240
ttcgtggggg ttntggggcg gtgtttaccg actcttctct gcctccgccc tgctcagcca 300
gggcttttag cctcttcggt tttccggcca gacccggaaa aacgaaaaca cagcttgggg 360
agcccccact agccggcgcc tgtgccagct cacctctggc catggcgag ctgccggtgc 420
acacggcggc caaggccagc tccacattct tccctcccc tcccacttca ccgtagcccc 480
gaaccctgcy cgagagaaaa ggggtctcagc tccacagacg actgggtccc tcctcaccaa 540
aaatgggtgag acaagatttc atctgtcggc cgaggagcca caagcagggt tgtctgagag 600
ggatgggtgct gggggaaggc tttggattgc atctcaaatt aagctttgct ccttaaatgt 660
ggcgtctcgc caagaaaaag cttggggcct gaattcttga gatttatggt gcaccttatt 720
gatcaaatat atctggactt ttttttagtt cccgatgtgt ccctatcatt aaaaaaaa 778

```

<210> 617

430

<211> 750
 <212> DNA
 <213> Homo sapiens

<400> 617
 acccacgcgt ccgttaaaac gtcataactt aaatatcaaa attaaaaata aatcaataaa 60
 atagcatttt aggacatgct gttttgaatt catgccttcc ctttccattt tgttgatcat 120
 cactgtttta gattcttaac ctctataaac tcttataaaa attggccact gcaccagcc 180
 taggggtttt ctttttgagg tgataaaaat gttctaaagt ttatagtgat gatgcttgca 240
 atttctataa gtagacttaa tgcagtgatg gttgcaaatt ctataaatat atttaatgtg 300
 gtgatggttg caaattctat gaaaaaccca aattgtacaa tttcaatgag tgaaagcatg 360
 ctatgtgaat gtcttcataa aggttttatt taaaaaatga gcaaacggta gaatgttaac 420
 atggccacg tctatgtggt gtctatattg gtttctatta tatgttttct atgtggttga 480
 aacattccta ataaaatgtg catagttttt taaaaaraa aacacatcag tggacgtgaa 540
 tgcaggatgt cttatgaatg ctacacaga agctcccat cgtgaggaaat gcagggaaaa 600
 gcagaagatg gagtaggagt tggcatggcc cagctagctc agatgacaca cgatgggtccc 660
 agtggcatga cttggtttgt gtgattttgt ccttgggggt ttattttggc acattataaa 720
 ggagtaaata aagcctgtat acagtcaaaa 750

<210> 618
 <211> 451
 <212> DNA
 <213> Homo sapiens

<400> 618
 gcggccgcag tggaaggagc aggcgcttga gctcgagcga cggcgctggc ggagacgccg 60
 gctgctctc ccctccccgc cgggtgagtga gcgccccgc cccggacgct ggcgggcggtc 120
 gcgccccct caccggccctc cgcggtgggt ggggacagtc gtgagggagc gtggcctggc 180
 ggcgcakcgg acgcgggcct ggccctccccgc tcgcggcctg tcggggctgg gacctgccgt 240
 cgccccggt cgaggttgaa gccccgggccc taggactcga cccccagcat cccacggggc 300
 ctctttcctt tcccggctca ttccgctgtc attttgacct ggggttcccc tccaagcccc 360
 tcgccttcgt tcccttccca agcatcccag ggccgaggtt gagggagggg cgtgtgagaa 420
 gtcgggccga ggmcgaggga ctgtttaagg a 451

<210> 619
 <211> 1080
 <212> DNA
 <213> Homo sapiens

<400> 619
 aagagaaaga taccatttga gactccagaa tctgcctcta actctcaaca agactctgca 60
 attactcaag tatcctttcc atcctcattg ccctgctgtt attacatagg ccctgggttca 120
 agtccttgtt acttgttccc attattgcaa taacttctaa ttccaatgcc gttgtgtgat 180
 cccattttta acacggccag agcagtcttc caacaacata gctctaactt agtttcatcc 240
 ccacttttac atgcytcagt ggctttccca gtgacttggc atggaacacg tcctcagttg 300
 ccatacatc cagctaaact ttacccaacc tttctttgtt cacacagttt ctttttctt 360
 cctcattgac ccatccgcat ctctgtttat ccaagacttc tctgtgatag ctgacctta 420
 gtctttctct ccctatttcc tccagactag atcctgtctc ctccctgcag ccccgacaca 480
 gccttcagtt catatctttt gcatgatgct tagcaccttc tatccctaag gacaacttac 540
 tcatttgaga tttctggcag ggtaccttgc atgcagtga cactcagtat ttgctgaatt 600
 aaattccttc ctatggatcc cttctgattt tttttaagt cctctaatac acatatcatt 660

431

```

ctaggggtca tggcactttt aatgtcattt tctaaaggaa aatcttatct atgatatttt 720
cccttataag agatagttgt tttgagtagg gttttttaaa agataaagggt agtaggaaat 780
tttttaaagc ctaaatatca aattcctttc cttttggagt tgggggaagk aatgaagggg 840
gagcaacttg ctctttcata tgagttgggc atagcatgta agaaccaatc ttgaaatata 900
gttttttttt taatggctta taatgtattt ctagaaatac tttgtactta aaatgataac 960
agtttgtatc tttttgtcca tataaagata ctttataaat aaaaaaatta gcattgtaaa 1020
taatgttaat atgtatttat acaaaataaa tttactataa tataaaaaaa aaaaaaaaaa 1080

```

<210> 620

<211> 823

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (646)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (699)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (717)

<223> n equals a,t,g, or c

<400> 620

```

ggagggtttcc tttgtccatt aagcaagccc caagaaccag aacccttttg ctgcttttct 60
tacataccta acagctctcc agtcatgatg accaagggtg ttcttcaatc aaatgtgttt 120
gwgggatttt cagtccgcaa atgaagtgtc ctctaataaa tgggacacca tgataaatat 180
gtattttatat ttagatgcca aagtatggcm aattattttc aaatgataac tacaaatggg 240
aattttcgat attctacctt ttttatagaa ccagctcact tttcatttct ttttcatttt 300
gaattaagaa aattgktgag gatgtggtgg gttccagtgt gtggaatgga aaggaaactg 360
cagaatagtg tctgtctccc attcagaggg actgcttctt gtgcccccca gacccggggc 420
ttcgacagct tctccacatt ccacacagat gcctaggagc agcgagttgg tatatgaaaa 480
gtctcccacc ttttctccta aaacttctct cctttctctc cataaaaaga aaaggaaagg 540
aacaaaagaa aaacattcag tttttctttt tctgaaaaag gtaagtcctt tcctgaagtc 600
atcaaatgaa acattatctg gaaattagtt tctaattgtt tataatnaaga aatacttaaa 660
tataagttcc tgcagtattt attagatagt tgtaactgna aactcacctc ctagtanata 720
agagtttcag gttaaatact ggaacatata taggcagtca aaaatactac tttaaatgca 780
ttcacctaata ttaaagccat gggttaaacac tttttaaggc caa 823

```

<210> 621

<211> 720

<212> DNA

<213> Homo sapiens

<400> 621

```

gctctaattgg aggaaacagt caacatgcaa aaatagatgt gtaatgtaag aagagtgatg 60

```

432

```

gaaactctag gaaacaatca aaaggaaatg ctagaaataa taaaaatcac tgacataaat 120
aaagaatgtc ttcaataggt tcatcaacag aacaagtttg aggaaagaat gagtaagctt 180
gaagataagt caacagaaat aatttcgaaa gtataatata catctatttg gaataccaga 240
aggagaagaa caagaacaag aaactaaaga aatatttgaa gtaacactgt cagaggattt 300
tcccaaatta accacagcaa mtcacaagtc aagaagtaga gaacagttaa caggagaaat 360
acaaaaacaa ttatacacia acttcagaaa accaaagaca aaaagaaaat cttcaaagga 420
gtcagagaaa aagtaacctg acttacagca aaacaggaca agaattaaat tagactttcc 480
atcagaaaca cagaagcaag aagactggag tgaagtattt aaatgctaaa ataaagaaaa 540
aaaatacaaaa cttgagaaat aaagactttc tcagacaaat gctgagggaa ataataacca 600
tcagaccttc cctgtaagaa aatattaaaa gaagttctca cggaaaagga aggtgataaa 660
gttcagaaaac tcaaatctgc gtaacaaagg aagagtgcc aagaaggaat aaataaaggt 720

```

<210> 622

<211> 332

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (332)

<223> n equals a,t,g, or c

<400> 622

```

gccaccagta cctagccaaa gttagtttta atgtgagagt caaggactac agtggcatgc 60
tgaggttaaca actgcaggag catcgaggta acagcaaaaa tcttttactc caattgggtc 120
aatccagttta accatgtaag aaactcctca cctaggggtca gtatgttact tctgtatttc 180
tgcaagcaca atccactgac ataaaaagtct aataattaga ctttattgta agtctaattgt 240
atcttgtaca tgataaaatg tatgaacttt ggatcaatat ggcaagctga agacacctgt 300
catgtggggg gactattttg tttgggttct an 332

```

<210> 623

<211> 510

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (76)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (471)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (491)

<223> n equals a,t,g, or c

<220>

433

<221> misc feature
 <222> (501)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (504)
 <223> n equals a,t,g, or c

<400> 623
 taaggctggt tcagagtctg agttgacttc tctttaatct acctatagaa ctttttaggtt 60
 tcaaaaaata cttttnaaat gacttttttg gtttggaag tacctttaat acattttaagc 120
 tagttttcct cctggaaata tttagaattt ctcccttaat tggcaacctt tatagaagtc 180
 tggtaagatt tgtcgcaaag atgtgccaca gatggacaca aatttcccat tcgggagcaa 240
 tatcttacca cagtgggtggc taaatgctag ggacaaaata caaggccgga actttccttc 300
 cctcagatac cttgtgctgt ggtgttttgt tgccactttc tccctctcat tttcaattat 360
 atgcacaatc ttccctttct agagtatgac tttggccaga tgactcacct gatgccacct 420
 aagggcattg cctggccagg tacatttctc tggctccagc cttggctaag ntgatgacct 480
 gagtcgatct ncacattcat ntcntgaacg 510

<210> 624
 <211> 653
 <212> DNA
 <213> Homo sapiens

<400> 624
 gtttttttat ggaaagaaca taaacatagt tttctaattt ggagaaatcg gtcttaaatgc 60
 aagtaggcat tttaaaatta catttatgaa ttatttttag accctacata atctttttta 120
 ttctgcaatg ttaaacagtt tctctagaaa atctgttttt gtttcctagt gactattaaa 180
 ctattctctc ctacaacagt aatattttatg ctataaattt aaatcatcat ttttgttttg 240
 attgattata agatatatgt tttattatca tgtagcctag ttttaagagtc ctcaatatwt 300
 ctgaagtttt agtgattctg ctgagagaga gcatagaaaa aaataagaaa aaaaaacca 360
 acctagtatc tgttgktcag tagattgtag gtacttctgt ttatagaaat aataagggga 420
 aaatgggtat tttagaatga ggatcttttg tgktgkacct cttgcttctc ttttatttga 480
 ataataaagg raataacatc aaattaatgt ttarcctact ttartatgga tattgaagtt 540
 aaaatgtcat tcatttgcatt ttatttagga aaagaagata tgcttcttaa acaaggctcag 600
 atgtatatgg cagactcaca gtgtacttcc ccagggtatc caggcccaat gca 653

<210> 625
 <211> 421
 <212> DNA
 <213> Homo sapiens

<400> 625
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 gagcttttgg cagcgttgat atcaaagcgg tgtgaagaaa acataaggcc ataagactaa 120
 tctctggaga gctgcacact gaaggggaac mtaagttctt gagtccctgg agtaccctaa 180
 gktkgwttc agagagggtg ccattcatga gcaacactgc tagccattag tggccagcaa 240
 gaaggggagt gaaaggagta tcttgtatag ggtgacttgg gtaatatgaa attgctgtca 300
 tcaaggttta tcaaaaamacc aaagggttaa tattacatgt aggcaatgtg aggctgcccc 360
 aaatgggtgt tttccaggga acttgattca actctgagaa taaatgcatg agtactgaga 420

434

a

421

<210> 626

<211> 500

<212> DNA

<213> Homo sapiens

<400> 626

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tcgaaccttt  tggatctctg  tcagaaatga  atgtttatth  ctttcaagtt  ttatcaagta  60
ttaatacgtt  ttattttatat  tcttttaaat  gttttattca  gtagttctgt  gaacttcaga  120
ctttgttggt  cagcctaata  gtatgcttct  gtaacttcta  cacattttat  aagaactcat  180
tcaaagttgt  agtcctacca  tagtgtttca  gggttccttg  ttgtgtacac  ttttactata  240
atggcaaaat  gtttcaaaat  cattcagctt  tttaaagaaa  cttattatgc  aaaagacact  300
cttgaaatgc  tgtgcatttg  agctgaagtg  aaagaatttg  tttcatgttg  tactttgcat  360
tatttttaagt  tttcacatct  ttaatatgct  tttctatgct  aattatatta  gaaatctata  420
aatataagtg  gtttctttgt  ttaaactagt  cattaaaaat  taggttgaaa  atgaaaaaaaa  480
aaaaaaaaaa  aaaaaaaaaa  500

```

<210> 627

<211> 545

<212> DNA

<213> Homo sapiens

<400> 627

```

gttgggtacgc  ctgcaggtag  cgggtccggaa  ttcccgggtc  gacccacgcg  tccgctctgt  60
tcctctgtgg  ctactctccc  atcttaaaaa  cgatccaagt  ggtccttttc  ctccctccctg  120
ccccctaccc  cacacatctc  gttttccagt  gcgacagcaa  gttcagcgtc  tccaggactt  180
ggctctgtct  tcaactcctg  aacccttaaa  agaaaaagct  gggtttgagc  tatttgccct  240
tgagtcattg  agacacaaaa  ggtatttagg  gtacagatct  agaagaagag  agagaacacc  300
tagatccaac  tgacccagga  gatctygggc  tggcctctag  tcctyctccc  tcaatcttaa  360
agctacagtg  atgtggcaag  tggatatttag  ctgttggtgt  ttttctgtct  tttctggcca  420
tggttgattct  gttctttcga  tactccagcc  cccaggggag  tgagtttctc  tgtctgtgct  480
ggggttgata  tctatgttca  aatcttatta  aattgccttc  aaaaaaaaaa  aaaaaagggc  540
ggccg  545

```

<210> 628

<211> 679

<212> DNA

<213> Homo sapiens

<400> 628

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cccccgtttt  aaaagatcag  tagtctctat  tcaaaactttt  aaaatgtcgt  ggtattgtaa  60
caatatatth  gatgaaagaa  ggttacagac  tcccctgaag  aaccagcttt  cctacgcttt  120
ttatttttct  aacttgctta  acctgatttt  aaaatgactg  caattccaga  ctaaaaacat  180
gcttcagccc  tgtttcaaga  cattatgctt  ctttttaacag  tccaaattag  tagttttatt  240
tttcttctaa  atctttgttt  cacacttgta  aaatcttggg  aaggagggtc  ttaaaacttt  300
gccaggaatt  gttaccatt  tccaaaaaca  gtttattatg  ttcaaaaacc  accatatctt  360
tgagggactg  tttgaaagg  gagagggcaa  cgcgggaaat  aattcactct  gcgcaccgga  420
actattgtag  ttcaggactt  ccagctactg  tatttagatg  ttgggtttga  atatacagat  480
ttcttttcaa  tacctgtaaa  tatggctata  ttcttgatt  tgtacgggag  tgtacaaaat  540
gacactgaaa  agtaataaat  atgttttgac  tatattgtgc  agttatttca  gaactgtgtt  600

```


435

ttgaaagtct tagaatgcat aatttgcatt tgagtaagga aattttaaata acagattact 660
 gctgagattt taaaaaaaaa 679

<210> 629
 <211> 905
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (165)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (793)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (803)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (816)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (843)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (869)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (889)
 <223> n equals a,t,g, or c

<400> 629
 cagtcgcaag tgactcttgc aataatagca tctcactcct atctgaaaag ttgacaagca 60
 gctgttcccc ccatcatatc aagagaagtg tagtggaagc tatgcaacgc caagctcggga 120
 aaatgtgcaa ttacgacaaa atcttggcac caagaaaaac ctagnccatg tcaataaaat 180
 cttaaaaagcc aaaaaacttc aaaggcaggc caggacaggg aataactttg tgaaacgtag 240
 gccagggtcga cctcgggaaat gtcccccttca ggctgtcgta tcaatgcaag cattccaggc 300
 tgctcagttt gtcaaccacag aattgaacag agacgaggaa ggagcagcac tgcacctcag 360
 tcctgacaca gttacagatg taattgaggc tgttgttcag agtgtaaatac tgaaccacaga 420

436

```

acataaaaag ggggtgaaga gaaaagggtg gctattggaa gaacagacca gaaaaaagca 480
gaagccatta ccagaggaag aagagcaaga gaataataaa agctttaatg aagcaccagt 540
tgagattccc agtccctctg aaaccccgagc taaaccttct gaacctgaaa gtaccttgca 600
gcctgtgctt tctctcatcc caaggggaaaa gaagccccca cgtcccccaa agaagaagta 660
tcagaaaagca gggctgtatt ctgacgttta caaaactaca gagtaagtag tagtacctat 720
tagctaacat ccccttttct tccacatttg gaaaaatact ttgactatca aaaaacaata 780
tagattcttt tnggtttcat aanccgtgat gattgngttt ttgcactcat ggattgaagt 840
acnccttcct taaacttttg ggtcaaggnc aattacatta ccccttttnt gatgtggggg 900
ggaaa                                           905

```

<210> 630

<211> 800

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (732)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (772)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (776)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (798)

<223> n equals a,t,g, or c

<400> 630

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gcagcctgga cgggtccgcag agacgttcct gtcttaggcg tcccacgaga tgctcctgtt 60
cagccctgcc gaggtggaag cttggagtgg ctcacggtgg atgcattgac gctgcagacg 120
ccagcaagtg ctacaaacca gagctggcct ttaactcaga ctgatggaga aggtgttaat 180
aatgcagatt agacttaaaa gtgttgaagc cattgcactg tgaacagcaa aaaaattgaa 240
gaactcttct ggcattttaa aacaattact cagttcagca gagaagtcac tgacaaacga 300
gatcacactg actgctttgt cgttttgggt ttgtcttact cattaatgca aataagaaca 360
ttcactagca tctgtgtcgg gcctaccctc cctgggtcaaa tacagctaca gtctccctgc 420
agatacgagt tttccagaaa tgagccgatg ttttctgcga gaatcaattg gtcataataca 480
atttacaaaa atgagtactg tatactatat ttgtaaactg tacactgcag atgctttatt 540
tactgaaat ttataataca cttatccatg tatatgcatg catgcatttt tgttcctgag 600
atccagctgt gaaatgttta ccagcacata aattaccagc acatgctctt ttttggttaac 660
ctactaggta aaatcttcat ttattacatc aaaaaaaaaa aaaaaagggc gggccgcttt 720
agaggatcca ancttacgta cgcgtgcatg cgacgggtcat agcttcttct antagngtca 780
cctaaattca atttcacngg                                           800

```

437

<210> 631
<211> 378
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (13)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (40)
<223> n equals a,t,g, or c

<400> 631
actaacgggg ctncacnatg gaagctcatt ataggggaatn ctgggtacgcc tgcagggtacc 60
ggtccggaat tcccgggtcg acccacgcgt ccgcggggagc cctttgctgt gtgctctgtc 120
cagtgtcatg agacggggagc cctttgctgt gtgctctgtc cagtgtcatg agacggggagc 180
cctttgctgt gtgctctgtc cagtgtcatg agacggggagc cctttgctgt gtgctctgtc 240
cagtgtcatg aggccaggtgt ttgcaaagcc agctctcggg tccgatgggg tattgctgac 300
ctacttttct aggggaaaatg ctcttaaaca ctgtaattat gcattttctaa tgaaataaaaa 360
tgtatttawr accacaaa 378

<210> 632
<211> 602
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (529)
<223> n equals a,t,g, or c .

<220>
<221> misc feature
<222> (540)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (548)
<223> n equals a,t,g, or c

<220>
<221> misc feature

438

<222> (583)

<223> n equals a,t,g, or c

<400> 632

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gccccgccca gtttgaggac ttgctatccc cgtgggaaca tcaccatgtc cgaggcacc 60
cgggccgaga cttttgtctt cctggacctg gaagccactg ggctccccag tgtggagccc 120
gagattgccg agctgtccct ctttgctgtc caccgctcct ccctggagaa cccggagcac 180
gacgagtctg gtgccctakt attgccccgg gtccctggaca agctcacgct gtgcatgtgc 240
ccggagcgcc ctttactgac caaggccagc gagatcacgc gctgagcag tgagggcctg 300
gcgcgatgcc ggaaggctgg ctttgatggc gccgwggtgc ggacgctgca ggccctcctg 360
agccgccagg cagggcccat ctgccttgtg gccacaatg gctttgatta tgatttcccc 420
ctgctgtgtg ccgagctgcg gmgcctgggt gccgcctgc cccgggacac tgtctgcctg 480
gacacgctgc cggccctgcg gggcctggac cgcgcccaca agccacggna cccggggccn 540
gggcccgnca gggttacaag cctcggaag ctttttccac cgntactttc gggcaagacc 600
aa 602

```

<210> 633

<211> 669

<212> DNA

<213> Homo sapiens

<400> 633

```

gacaggatac gtccctgtaa cccaatctct cggttgattg atagcagaac agctcttggt 60
ggtctgagaa ggcaggataa gtgaccacat atttatgcca ctacctccac caggagaggt 120
ccttctccac aggcttgata aattcaatca ccaactgtgc tgcgtccct gactctgcta 180
ctcccgttct tctgtcttct ctgctccgta tctcagtctg cactgacccc agggctgggc 240
tgacatcaag atgggagccc agcccacggg ctttataaac acccaagaac cgtttcagat 300
cttctctgtg ctgatgcagg tagtttttaa tttttctcag ttccagtgat agaaaaccca 360
cacaatacat cctctgccag tcttaataga atatcagagg taagaggggc ctgagagaag 420
ctctgacgca gtgctgctgg ggaagggaag tgactaacc cgggtcagcc tgccatttag 480
ggaaagagct gaggtttctta cccttgttgc atgctgccac ctctccttag ccagtgtctt 540
tgtacatcca cacagcacc taaggagcca tagtcacat caaagactca accctaaggc 600
ccttcaagat ctcaaagtgc cttctgaage atcagagatt aaatatgtt caaactaaaa 660
aagtcgacc 669

```

<210> 634

<211> 405

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (330)

<223> n equals a,t,g, or c

<400> 634

```

gcaattttta actaggttat cctgtgaatt aaacatttta atttattttt tatcatgtat 60
gatttattta tagatgcata catatgcagt aaaagcagta aaggaagcat gagaaaagata 120
aacacaaatt gatggtggca gtgacctctg gggaaagaat tataggataa aaacaaaaaac 180
atatatactt taaaaagtat acttcgtgkt atgaaatatt ctcatTTgaa tgcattgttaa 240
aatggratwa aagtagaata agttataata ctgggtactt agaaaccaga tattaactt 300

```

439

```

acctttatta tagtggtacc tgggtgccsn tagaattaca gtactwaaag gtacaaatta 360
tactaaaaat gatattggaa gatttgcaca tgggtggggt ttaag 405

```

```

<210> 635
<211> 1329
<212> DNA
<213> Homo sapiens

```

```

<400> 635
agagagaaaa gcacctttga atgcagtgaa tgtggaaagg ctttcagtta tctctcaaac 60
cttaatcagc atcagaaaaac tcataactcaa gagaaagcct atgaatgtaa agaattgtggg 120
aaagctttta ttcggagttc atctcttgct aagcatgaaa gaattcatac tggagagaaa 180
ccctatcagt gtcmkgaatg tgggaaaacc ttcagttatg gttcatccct tattcagcat 240
aggaagatcc atactggaga acgaccttac aagtgtaatg agtgtgggag agcattcaac 300
cagaacatac accttacaca gcataagaga attcatacag gagccaagcc ttatgagtgt 360
gctgagtgtg gtaaaagcctt tcgacattgt tcatctcttg ctcaacatca aaaaactcac 420
acagaagaaa aaccctacca gtgtaataaa tgtgaaaaga ccttttagcca gagctcccat 480
ctaactcagc atcaacgaat tcacactggg gagaagccct ataagtcaa tgaatgtgac 540
aaagccttta gccggagcac tcatctgact gaacatcaga atactcatac tggagagaaa 600
ccttataact gtaatgaatg cagaaagact ttagccaga gcacatatct cattcagcac 660
cagagaattc attcaggaga gaagcctttt ggatgtaatg attgtggaaa atccttcaga 720
tatcgctctg ctctcaacaa acatcagaga ctgcacccct gcataatgaca attctaggaa 780
catcataaat ttagggggaga tattttacttt agtttgtcct tttgttaagt actgaagaat 840
cagagtggat ttagaaaactg ccttgaaaac ttttaaat tccactatcat gttatggaat 900
ggaaagtaca ttgggctgaa ctaatccaat tgttattaag ccactctgtg acattagaaa 960
actctactgt tttaagcctt agtttcctt atggaatgaa ggmmttgag tagattattt 1020
caaaggtagt ttggagtttt ataatacagtt ttgtatattt acaatatatt cttgaatggg 1080
tttactatac atcagcattt tgctgtgttg catctagaat gtgtatgttt atgcatgttt 1140
tgccaataga atttgtgctt cagtaactag atcggggatc tagtatgtct ctgggtctaat 1200
gcattttacat tgttttaggta actggttcct aataaaaaaga attataaaat accctcaaat 1260
taacaattca attgcatata atagcctaac tcagtaagaa tattaaaact tactattatt 1320
aaaaaaaaa 1329

```

```

<210> 636
<211> 440
<212> DNA
<213> Homo sapiens

```

```

<400> 636
gctgctggaa gcccaggcgg gggaaggggg ccgtgtgtcg cgsagagcgc ccttgagcct 60
tacgcagagg tcttgtgtgt tcctagttaa gccctcccac gcccgaggcc ccatcgcttc 120
ctctccaccc tctttaccca ccaatattcc aagcccagat cctaattccc caccgcatta 180
ccccgccctg gatttgggga atgtttttct ttattttaat atagctcaag gaaaaaatac 240
gtatatcttg agagatttgg ggtggggaaa acaaaaagcct tgccggagtar aaaaaacaaa 300
ggcttatttt tataaatgtt taatgttttc accccttgga tgctccgara cgccgtaatt 360
gtgacggcgg ggtacgtgtg ccataaatca tttagttgct aataaaaaatt ctgcctgttt 420
gccctggaaa aaaaaaaaaa 440

```

```

<210> 637
<211> 1216
<212> DNA

```

440

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1078)

<223> n equals a,t,g, or c

<400> 637

```

aagnggggaa acgcttcagg ctgatgtggt gatttacggt attggtatca gcgccaacga 60
gcaactggct cgcgaggcca accttgatac tgccaatggc attgtcattg atgaggcttg 120
ccgcacctgc gatcccgcca tctttgccgg tggcgatgtg gcaatcactc gtcttgataa 180
tggtgcaacta caccgctgcg aaagctggga aaacgccaat aaccaggcgc aaattgccgc 240
tgccgcaatg ttagggctac cgctaccgct actgccgcgc ccgtggttct ggagcgatca 300
gtacagtgat aacttacagt ttattggcga tatgcgtggc gatgactggc tttgtcgtgg 360
caaccgggaa actcagaagg cgatttggtt taatctgcaa aacggcgtgc ttatcgggtgc 420
ggtcacgctg aatcagggggc gtgagattcg cccaattcgc aaatggatcc agagcggcaa 480
aacgtttgat gcgaaactgc tgatagatga gaacatcgcg cttaaatacac tgtaaccagg 540
ataattagcg aatatctcaa tgcctggggc gtggcgagggt gcaagagtgt gtattacgtt 600
taaatcacat tatcttgcaa agggawtggg ctgctcgcca tatcgtcaat cgtatcaatg 660
cgttcaaacc gactgccgat cgtccgtttg tactgggcct gccgactggc ggcacgccga 720
tgaccacctt taaagcgcta gtcgaaatgc ataaagcagg ccaggtcagc tttaagcacg 780
ttgtcacctt caacatggac gaatatgtcg gtctgccgaa agagcatccg gaaagctact 840
acagctttat gcaccgtaat ttcttcgata acgttgatat tccagcagaa aacatcaacc 900
ttctcaacgg caacgccccg gatatcgacg ccgagtgccg ccagtatgaa raaaaaatcc 960
gttcttacgg aaaaattcat ctgtttatgg gcggtgtakg taacgacggg catattgcat 1020
ttaacgaacc ggcgtcttct ctggcttctc gtactcgtat caaaaccctg actcatgnac 1080
actcgcgtcg caaactctcg tttctttgat aacgatgtta atcaggtgcc aaaatatgcc 1140
ctgactgtcg gtgttggtac actgctggat gccgaagaag tgatgattct ggtgctgggt 1200
agccagaaaag cactgg                                     1216

```

<210> 638

<211> 557

<212> DNA

<213> Homo sapiens

<400> 638

```

ggggattctg ttcataatcc tggatggtgc ctttgacctt tgtgtcactt cagtgtcaaa 60
aggaggattt gaaaggggaa aaacggcaac atttgcaactg ctgtacaggt tgagaaatat 120
cctatttgaa agaaaatagaa gagtgatgga tgtcatttct cgttcacagc ttactttgga 180
tgatcttttt tctgactact atgacaaacc tctcagcatg actgatattt cactcaaaga 240
agggacccat atccgagtta acttacttaa tcacaacatt cccaaagggc cttgcatact 300
ctgtggaatg gggaaacttca aaaggagac agtttatggg tgctttcagt gttctgttga 360
tggtcagaag tatgtgagac ttcatgcagt tccttgtttt gatatttggc acaagaggat 420
gaaataaaaat gaaaaatgaa tacaccgtgt tgggtgtttta ggtgcagttg tgccacaaac 480
cttccttaaa ttatctaggt ttgmwttgat smmttaaaatt aaaatgagaa aagcaaaaag 540
aaaaaaaaaa aaaaaaa                                     557

```

441

<210> 639
 <211> 1269
 <212> DNA
 <213> Homo sapiens

<400> 639
 aattcggcac gagtttgtat tttgagtaga gacagggttt caccgtgttg gctaggatgg 60
 tgtctatctc ttgaccttgt gatccacccg cctcagcctc ccagagtgtt gggattacag 120
 gtgcgagcca ctgcgcctgg ctggttttca tgaatcttga tagacatcta taacgttatt 180
 attttcagtg gtgtgcagca tttttgcttc atgagtatga cctaggtata gagatctgat 240
 aacttgaatt cagaatatta agaaaatgaa gtaactgatt ttctaaaaaa aaaaaaaaaa 300
 aaaatttcta cattataact cacagcattg ttccattgca ggttttgcaa tgtttggggg 360
 taaagacagt agaaatatta ttcagtaaac aataatgtgt gaacttttaa gatggataat 420
 agggcatgga ctgagtgtct ctatcttgaa atgtgcacag gtacacttac cttttttttt 480
 ttttttttta agtttttccc attcaggaaa acaacattgt gatctgtact acaggaacca 540
 aatgtcatgc gtcatacatg tgggtataaa gtacataaaa tatatctaac tattcataat 600
 gtgggggtggg taatactgtc tgtgaaataa tgtaagaagc ttttcaacta aaaaaaatgc 660
 attactttca cttaacacta gacaccaggt cgaaaatttt caaggttata gtacttattt 720
 caacaattct tagagatgct agctagtgtt gaagctaaaa atagctttat ttatgctgaa 780
 ttgtgatatt tttatgccaa awttttttta gtctaatca ttgatgatag cttggaaata 840
 aataattatg ccatggcatt tgacagttca ttattcctat aagaattaaa ttgagtttag 900
 agagaatggg ggtgttgagc tgattattaa cagttactga aatcaaatat ttatttgtaa 960
 cattattcca tttgtatttt aggtttcctt ttacattctt tttatatgca ttctgacatt 1020
 acatattttt taagactatg gaaataattt aaagatttaa gctctgggtg atgattatct 1080
 gctaagtaag tctgaaaatg taatatattt ataatactgt aatatacctg tcacacaaat 1140
 gctttttctaa tgttttaacc ttgagtattg cagttgtctg tttgtacaga ggttactgca 1200
 ataaaggaag tggattcatt aaacctattt aatgtccaaa aaaaaaaaaa aaaaaaaaaa 1260
 aaaaaaaaaa 1269

<210> 640
 <211> 691
 <212> DNA
 <213> Homo sapiens

<400> 640
 gggaatattg taatacagtc cagctagatt ctgggataga ttaccggaaa agggaaacttc 60
 ctgctgcagg aaaactctac tacctcacia gtgaagctga tgtggaggct gtcattggata 120
 agttgtttga tgagctggct cagaaacaaa atgatttaac tagaccaagg attctaaaag 180
 tgcaaggcag agagctgcgc ctgaataaaag cctgtggaac cgttgccgac tgcacatttg 240
 aagagctgtg tgagagacca cttggagcca gtgactattt ggaactayca aagaattttg 300
 atacaatatt ttacgaamc attccgcaat ttactctggc aaacaggact caaggctcga 360
 gattcataac tctcatcgat aacttttatg atctcaagggt gcgtataatt tgctctgcgt 420
 cgactcctat atcaagctta tttttgcatc aacatcatga cagtgaattg gagcaaaagca 480
 gaatactgat ggatgawttg gggctkarcc aggattcagc agaaggactc tccatgttta 540
 ccggagaaga ggaaatcttt gcatttcagc gcacaatttc ccgactcacg gaaatgcaga 600
 ctgaacagta ctggaatgaa ggagacagaa ccaagaagta actgccactt ttgcataaat 660
 aaaactctag acaaatgggt aaaaaaaaaa a 691

<210> 641
 <211> 604

442

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (528)

<223> n equals a,t,g, or c

<400> 641

```
cgcgtcgact tttttttttt caatttcaag gattacgaaa ttcttctgtc ttagttacaa 60
acaaaatgca gctatgaagc actgggaagt aaatgcaaaa tatagaaaga atcttcatga 120
ttctcccaaa ctgtaagcac agctcacaaa gtctcattgc tttagaatgt tttctggatg 180
aacaagttac cagctgcaaa ccgacttcag aagtgaggaa aatgttttct catgtttcat 240
gtagctgtca aattttcaaa aatcctccat ctttcaatca cccagtgggg aaaatgtgtt 300
ataaaacact gccccctgga gtattctggg aggaatgtct taaaaaaaaa aaaaaaacag 360
carggagaaa gtactttcaa attctttact aaccactaac agaatttcta agaagcaaaa 420
gaaaaccaca gaaaggaaat gtacatgaat aaagttgagc aggatgtgta caactttaaa 480
ctgtattgta ttcattgttc taaacaatat tggccttctc gatgattnta ttcattgttc 540
tccaaagtta accctgtaga actaagtagg tgaagagata ttttgtataa gtgccacaga 600
agag                                     604
```

<210> 642

<211> 961

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (32)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (923)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (947)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (953)

<223> n equals a,t,g, or c

443

<220>
 <221> misc feature
 <222> (954)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (960)
 <223> n equals a,t,g, or c

<400> 642
 tagatagaac agatgttttg tgtgaaattt nntatcttta acttaatawaa ccagcaggaa 60
 ctgtatgaac acaacacacc caactgacaa acagagagaa ctaacatgtt tatttagctg 120
 tatgtatata tgcttaacta cacccgagga agctgtagag ttagaaaaac atgaaccatt 180
 aacagatgtg gcctccctgc agaactttta ctttgaaaaa gaagtacgtc tgaaccagat 240
 tcacatgttt gatattttgga tgcagagaaa atggggcaga aagcatcgca acagttggct 300
 ctgaaggaca gcaaaagggt gcccgtcgtc tgtgaggtgg tcagtgaagc tatagtccat 360
 gcagctcaga aactgaagga gtaccttgga tttgaatatc ctccaagtaa actctgcccc 420
 gctgcaaata ctctgaatga gatctttctta atccatttca tcactttctg ccaagaaaaag 480
 ggagttgatg agtggctgac caccaccaag atgaccaagc accaagcctt cctgttttgt 540
 gcagactgga tttggacctt ttggggatcy gacaagcaaa taaagcttca gctcgcagta 600
 cagactctgc agatgtcttc acctcctcct gtggaatcta agccttgtga cctttccaat 660
 ccagaatcaa rggtaragga rtcttcctgg aagaaaagta gatttgataa gctggaagaa 720
 ttctgtaaact taataggaga ggattgcctg ggtctgttta tcatctttgg tatgccagga 780
 aagcctaaag acatcagggg agttgtcctg gacagtgtca aaagtcagat ggtgaggagc 840
 catctgccag gaggggaaggc tgtggctcas tttgtcctgg aaactgaaga ttgtgtgttc 900
 atcaaagagc tgctcaaaat tgnctgagta agaaaagacg gctgganaga agnnggcaan 960
 g 961

<210> 643
 <211> 425
 <212> DNA
 <213> Homo sapiens

<400> 643
 acatggaagc ttttttacca aataactgtg ttgcatcatc ctccagtttg cctgggtgtcc 60
 ttaatcaatg gaaggggaat aagcaaaactg agttttctta caccttttga gtatagtgtt 120
 tttgccatca tagatgtggc tcctcataat tctccaactt ttatattaaa aaacccaaaac 180
 ctcaaaaatt gtagttcatg tcagtcagtg atgactcatc ttagaaktat tttgtttttg 240
 gatgtgtgaa tgtgcatagt tcttaaagtc caacattcat gtaataagac atcttgcata 300
 taacaatgac ccttacgtct aagatgttaa atagatccta agcctggat aactttattc 360
 aagtatcctt atttgcccct aaaatgtctt taatacacat tacttgggtt atytcttgaa 420
 tgaac 425

<210> 644
 <211> 419
 <212> DNA
 <213> Homo sapiens

<400> 644
 ggtttcaatg ttttgtctgt gtctctctga ttattttgct tgttgattgg ccagttgtta 60

444

```
attctgtctt tgtgagttgt ctttttctca gtacttggcc tatttgtctt tgatttgaaa 120
aagctcttta tgtttagtgc attttaattc ctgtcatatg ttttgtaaac aatttttcga 180
gttcataatt tttcaatctt gtttgtatta tattttgccca cacaaaaatt ttaaatttgt 240
atagtcaaat ttatcagtct ttttccttat gttggacctt ctaatctcaa ggtactaaat 300
ataatctagc attttttttaa acattaaaaa tttttaatcc atctataatt tatttttagga 360
tagggagtgga ggcaggggaa ggtatctttt taaataaaaa tcgttgctaa aaaaaaaaaa 419
```

<210> 645

<211> 655

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<400> 645

```
acagcctaac tttncagcta gacagaatgg ccattaagaa tatttccaaa atccaagttt 60
atcaaaaatta ttttgtggga aatcatcaat ctattttatt aatgttatgt gtttaatttt 120
ggacttatatt tgggaaaaaac tgttcaaaatt gggtcctttt aagcttatatt taagcagcct 180
agaaggaaga agctacttag ctaatgaaaag ctgagacact ttaataaaaag caggatctta 240
agagcattgt ttttccttaa aaactttata ctctcagata atctgcaaca acaaaaaatta 300
agaaaatccct gactttttgta gaattcccac tgtcaaatc tctactgactt atgagtgtga 360
gagaagttat cttttgtttg aattctgata gaacagttta actcctttct aaggatataa 420
aaaaattcatt ggaaagtgtg tatatttcaa agactctcaa ttatctggac tgaaggcact 480
gttctcacta tggccagatg aatgggagta ttctgtacat gaatcatgct gtatttttaa 540
tcaggacatc acttaagtat taatgttgtg tgtacagatt tttgttttgg gatttttttt 600
gcctaaataa atgttataaa ttttatgtaa aaaaaaaaaa aaaaaaaaaa aaaaaa 655
```

<210> 646

<211> 458

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (371)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (427)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (428)

<223> n equals a,t,g, or c

<400> 646

445

```

gccctctctt ccaatatcca tgtctcatac actatggctt actgttgaaa tccaactggg 60
aagaagataa ttctttgagc aagcaatggg agattcaggc tcctacagaa acagcattga 120
tcatactgtg gttcttcgag agaagctgcc catccgcagt aatatcttcc ctctgatgct 180
ggaaactgtc gacggccatc cacttattaa tggacccata actaaggaaa catcacctgt 240
ccaagttcaa attggaaacc atgttgaaga gctccagttt gacattattc atgcaccacg 300
ataccctctg attattggaa tccattgggt tgagacacat gaccaaacat araatggart 360
acccgcactg ngtcctttct atcacgttat ttgtcactac aattgcttca ggcacagggtg 420
ggaatannaa gaaatccgtg atgaaataat tttctggg 458

```

```

<210> 647
<211> 285
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (153)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (162)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (236)
<223> n equals a,t,g, or c

```

```

<400> 647
aaggctgaca caggagcaat caagaaccca ggagacgggtg gttgcagtga gctgagatcg 60
cgccattgcc ctccagcctg ggcaacaagg gtgaaactct gtctcaaaaa acaaacaaac 120
aaatgcattt aactattcct gtgtaacaaa ttntaaaggg angctgtaaa gtaaagggtt 180
ttcttatcca aacagattgc tcttcttgaa aacagcagcc tgyggttatg tcaganatgc 240
aaacactgct gaaggctaca gagagaagct ggtaactggc tgccg 285

```

```

<210> 648
<211> 1872
<212> DNA
<213> Homo sapiens

```

```

<400> 648
aattccgatt ttatgccagt tgcaccagca tgcagaatat ttgtaatgca tttcaaagtg 60
gatataatgg caccctttgt cagaatcaca aagctcactg cggcactgct acaagaggac 120
actgaggaaa atctggccct atgaacctag tcaaccccaa gcaaaaagaa tgactatgtg 180
tgtgagtgca gcacatggcc agttcgtttc tcaactgttt ggaaagccct gtgtgccaaa 240
ccaaggacgt gtctttcagg gaaaggttaa ttttccgaag tttattaaaa tagaacttgg 300
aaaaccaagc attttgaatt tattccagtc ctctgggcat catctctatt tcttctgcca 360
tgtcaaggag aaattccaag cctgcattct gtcatgctaa aataaccagc ccatacttct 420
cgggtgacct ctgttgaaacg tacctgagcc tgcaaatgta aaaatgattg tatctgaatt 480
tgcactaatg gtgtctgaga gcaaaaagag tgtgacctct attggaaacc tttgttcaaa 540

```

446

```

ttcaataatt cagagatgct acatacttct gcaagcttcc tgattatggt cactgtaata 600
ttaatgacct aagtttgaat gtatttccct acagtccatt aatttgacat ccatctttta 660
cctgggggatt attacaattg caataagtca ttaatgtttt cttcacacag cttcttaaac 720
caagtttctc tgcagctctt tcggttctgc ttacagtgtg tgggaaatct gatttttttc 780
ccctagtaat agtttgataa gaaatttagt gtattgactg cctcagtgc acaattttatc 840
tttaaagggtg tggaagctgg tggggaccaa atgttacctg tgtttttgct gttgattgct 900
attttcagaa gcaaaccatg tttttcactt acagtaggag tcaacaaatt tgggatttta 960
gaaggggggag gagggagcta tttgtgtaag actgctgtca tatttgacta catattaaaa 1020
acagtaaatg agcattttgt ttttaattct taaatacctt gtctttcaac atacgttttg 1080
tttcccttct tccattagtg ttcaaaaggt tctaccctt gtggaagaaa ttctgtgtgc 1140
agaattcaga ggcacaaggc tgatggcaag attagaaagt tattttgctt ctaaaccctac 1200
cccgatgtgg aaactgatac tagctagagg gagctgtaga aaacaaagat ttcaggattg 1260
cacagtgtgt gggcaatggg atggagactt tttccctat tcccagccac agtgcccaag 1320
cgttcaagtc ycctggatca gacagatggg attttagctg ctgcttttaa tccctagtgt 1380
ggaataagtc aaggtacytc agttcagctc ttgcctctgt cactaatctt gctttatgaa 1440
ctcctttgat tttctgaata agttccagaa ggttctctat tattctgtcc ttcttccaaa 1500
ctggaaatgg ctgtatctaa ttctcaggat attttggatg tgtgcctcag gtaatttatg 1560
tggaatgtgt aaagcaagat gtctccaatt ctgaatatc cttccctttt tcccaatcct 1620
ccactcttgg actaccttta taacaacacc gagtacgcac agacctgaac ccatgcccaa 1680
gaagcacaca caatgactgg agctgtcggg aattcctgtc agtggcattc cctgagcact 1740
ggctctgtac aactcaatta taatttttta agaatcatac ctctgtatag atcttttggg 1800
ctgtactgat taaactttga tattgtggag taaattcaga agtgcaattt taaaaaaaaa 1860
aaaaaaaaaa aa 1872

```

<210> 649

<211> 840

<212> DNA

<213> Homo sapiens

<400> 649

```

aattggaagg gaccttaaag ccctctaaga aagagttggt tagtagcagc tagaagccag 60
gtcttccaaa tcacagtcct aaatgatgaa tgttgaatga tgcactatgt ttttgtttaa 120
atgagatttc ctgaaaatag ttaatttcag aattaaggga aattgatgtc gctatcatga 180
ggcatcataa aaatatgtat tttaacaagg gaaggcattt caagtagata tagttcttga 240
tgaagcagga agaacatgga tctgggattt ggaagacctg gcttctagct gctactaacc 300
aactctgtga ctctgggaaa gggggactca gtcttactt ctgtaacatg aggacaccgg 360
actatttgaa ttcagaactt agaaaattgg aaggggacct aaagccctct aagaaagagt 420
tcgggaatgt tctccattgc tgtcagtttt cctccaaaaa taacctggct tgggaagtat 480
tggtccagtg ggaatttgat tccccataga aactggagaa aaggtaatgc aagtagagag 540
gaacagctgt atttctgctt gagtaataaa cccactaaca gattctggta cgaattgtgg 600
agacataaag agaatgagtg tatgtactct aagtgtacca gtttcttcac tctctcctgg 660
cagaagatgc aacactttta gtgattctgg gattctggga tgtgttccta ttaattctaa 720
tacagatgaa gaagatgtgg tagaggaaaa gatggtagca gaaggagtga ataaagaggc 780
aaaacagccc gctaaaaaga aaagaaagaa gggtttgcca attaagggga aaaggcgctg 840

```

<210> 650

<211> 823

<212> DNA

<213> Homo sapiens

<220>

447

<221> misc feature
 <222> (4)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (192)
 <223> n equals a,t,g, or c

<400> 650
 cggnttttggga gcatataccc aactttttctc tggatgatat ggtaaagctc gtagaagtcc 60
 ccaacgatgg agggcctctg ggaatccatg tagtgccctt cagtgcctga ggcggcagaa 120
 ccctgggggtt attagtaaaa cgattggaga aagggtggtaa agctgaacat gaaaatcttt 180
 ttcgtgagaa tnattgcatt gtcaggatta atgatggcga ccttcgaaat agaagatttg 240
 aacaagcaca acatatgttt cgccaagcca tgcgtacacc catcatttgg ttccatgtgg 300
 ttcctgcagc aaataaagag cagtatgaac aactatccca aagtgagaag aacaattact 360
 attcaagccg ttttagccct gacagccagt atattgacaa caggagtgtg aacagtgcag 420
 ggcttcacac ggtgcagaga gcaccccgac tgaaccaccc gcctgagcag atagactctc 480
 actcaagact acctcatagc gcacaccctt cgggaaaacc accatccgct ccagcctcgg 540
 cacctcagaa tgtatttagt acgactgtaa gcagtgggta taacacccaa aaaataggca 600
 agaggcttaa tatccagctt aagaaaggta cagaagggtt gggattcagc atcacttcca 660
 gagatgtaac aataggtggc tcagctccaa tctatgtgaa aaacattctc ccccgggggg 720
 cggccattca ggatggccga cttaaggcag gagacagact tatagaggta aatggagtag 780
 gtttagtggg caaatcccaa gaggaagttg tttcgctgtt gag 823

<210> 651
 <211> 541
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (7)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (8)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (66)
 <223> n equals a,t,g, or c

<400> 651
 ggcacgnngg gagggccagg gagaacgggg aaggacatt tagtttgaga cgggtgctgag 60
 ataggntcat gaaggaagag gtgaaggga ttcctgtaag agtggcgctg cgttgtcgcc 120
 ctctgggtccc caaagagatt agcgagggt gccagatgtg cctttccttc gtgcccggag 180
 agcctcaggt ggtggttgg acagataaat ccttcacct cgtatttgt tttgatccct 240
 ctactgaaca ggaagaagtc ttcaatacag cagtagegcc actcataaaa ggtgtattta 300

448

```

aaggatataa tgcaacgggtc ctggcctatg ggcagactgg ctctggaaaa acctattcaa 360
tgggaggtgc atatactgca gagcaagaga atgaaccaac agttgggggtt attcctaggg 420
taatacaact gctcttcaaa gaaattgata aaaagagtga ctttgaattt actctgaaag 480
tgtcttactt agagattttac aatgaagaaa ttttggatct tctatgcca tctcgtgaga 540
a 541

```

```

<210> 652
<211> 1655
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (1378)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1444)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1521)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1606)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1648)
<223> n equals a,t,g, or c

```

```

<400> 652
agtctggagc cggcgcgtag gagcgggcgg cggggctgtg ccctctccta ctcctcaccg 60
cgcgmgcggg gaaccagtar ccgcggctgc ttcggttgcc gcggtcgggtg gtcgttatgg 120
attctccatg ggacgagttg gctctggcct tctcccgcac gtccatgttt cccttttttg 180
acatcgcgca ctatctagt tcaagtgtgg cggtgaaaacg tcagccggga gcagctgcat 240
tggcatggaa gaatcctatt tcaagctggt ttactgctat gctccactgt tttggtggag 300
gaattttatc ctgtctactg cttgcagagc ctccattgaa gtttcttgca aaccacacta 360
acatattact ggcattcttca atctggtata ttacattttt ttgcccgcac gacctagttt 420
cccagggtcta ttcataatcta cctgttcaac tactggcttc gggaaatgaag gaagtgacca 480
gaacttgga aatagtaggt ggagtcacac atgctaatac ctattacaaa aatggctgga 540
tagtcatgat agctattgga tgggcccag gtgcaggtgg taccattata acgaattttg 600
agaggttggg aaaaggagat tggaaaccag aaggtgatga atggctgaag atgtcatacc 660
ctgccaaggt aaccctgctg gggtcagtta tcttcacatt ccagsacacc cagsatctgg 720
caatatcaaa gcataatctt atgttccttt ataccatctt tattgtggcc acaaagataa 780
ccatgatgac tacacagact tctactatga catttgctcc ttttgaggat acattgagtt 840

```

449

```

ggatgctatt tggctggcag cagccgtttt catcatgtga gaagaaaagt gaagcaaagt 900
caccttccaa tggcggttggg tcattggcct caaagccggt agatgttgcc tcagataatg 960
ttaaaaagaa acatactaag aagaatgaat aaattttacgt gatgagctct acaaggccaa 1020
aaattttttt tcttatctac ctgttatatt gtgctaattt tctatgtatg tgatgtgaaa 1080
tgaagactat atatatggaa tggaggtgac agaaagaaag aaattctttg tttgagggag 1140
acttccccct tctggattgt atttgtagag tgttacgagt gtatcatgtg attatgcttt 1200
accggtataa gagattctgt tgtgattatt tgaatagttt tatattaata aaagaagacm 1260
aaatttttta aatgttagaa aaagcagatc tgtcattgca aagtaacaaa aattttaagc 1320
ttttaaaaaa gtaagatttt tcgtattttt aaaatttgaa tctattttga gctttagntc 1380
agcagaatta aattttttact tgacattatc attaaaattg ctagggtatgg agaacaattc 1440
ctgnttttatt ttgaacactg agaaagaggt aaacttttcc taaaacactt tatattataa 1500
accgaaaaat aaattgctag nttatatatt aagatattaa catcatattt ttttaataata 1560
cctacatcaa atgggaaaaa atctgaaatt tttttttcat tagcanggat ttttctacta 1620
gaaagtagtt taactacttt cattttanaa ccaga 1655

```

```

<210> 653
<211> 1160
<212> DNA
<213> Homo sapiens

```

```

<400> 653
tggcgctagt ctgaccctcc gccaggcaaa aggaagattg tctttggcta tagagttttt 60
tttttaaaaga ttactaaaca tacaggaagt gataagaagt atcattcatc agaagcatca 120
ttcatcaatc aacttgaaga aaaaggtgat atattatttc ttttaaggtgc tgtgtgatgt 180
gttaagagca tattagaagg aatggttttg tctaattttc ttcatgagtt atgggtggctg 240
agacatcgag tctatatattt gggggcaaaaa ctaaacggca gcacaaaagg aaatctatat 300
taatagaata ttttgttgaa caaaggaggt tagataagaa ctgcaaacca acagactcag 360
caaacaagga aagaaacgtg ttagccataa gacatgtttc aagtgaatcg aagtccaata 420
actgtagact tcagaagaaa aaagttttca aaaattttat caaaacaggt cactgataaa 480
taactcctcc agtaatagag ctaggcctga aaccaraatt aattaaaaaa ttaacaaaac 540
agattgaacc tgaattaaat ttcttttgat aaaaaaactt attaaaaata atcaaaaattt 600
tcctcaaat tttattacct tgtccaaagt aaagcaagtg tcttttagca ttcatgccag 660
cttttctcat gktctaggaa tgacagaaac cttacttgaa gcaaactagt atttttgttg 720
aaaatgkata tcagcatcag ttaaagttga tttttcagac ctgctcctca gtaataatac 780
tagctagtca gcattcacgc ctaccaggac acaaaaatcc tcttcaaaac tactcagaaa 840
agaaagtcac tactcaggaa tgatgtccat tcaggagaaa tcaaaagaga attcctccaa 900
agttactaaa aaaagtgcag ataagaattc agaaacagaa attcaggatt ctcaaaagaa 960
tctagcaaaa aatcaggtcc aaaggagact ataaaatcac aggctaaatc ttccagtga 1020
agtaaaaata atcagccaga attggaaaca cgcattgagta caaggtcatc aaaggcgagca 1080
tctaatagata aagctactaa atccattaat aaaaatacgg tgactgtgag gggatattca 1140
caagaatcta caaaaaaaaaa 1160

```

```

<210> 654
<211> 836
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (538)
<223> n equals a,t,g, or c

```

450

<400> 654

```

gaaggcctga gagacggcag actgagcaga attccttttt tgagcacgag agcattacta 60
gaaccattgt caaagcagtg gcaagggacg gagagggtccc aacaggagtc aggaagaggt 120
ttgattataa ccaagaaaac tcactatgct aggaatagac tgtgtgcacc agtcccagac 180
acttggcaga agtgtagcag cgttacacat gtgtgcgaas agatcgcagg ttccacgcca 240
tctgcatggc ctgcaggagc ttctgctgct gaccccatgc tgagtggcca gtggggagcg 300
gcgcccgcca ggctcttctg gggtcgtctg tcctatccgt ggattgtata tactcttctc 360
tgttaaggag tttttcccaa gaagaaaagt atttaaaaga aataccagtg agtgccttaa 420
agttggagaa gtaactgccc atgcccagaa ataaggatgc cagtgccag aagcagtgag 480
attagtctgt gtccacaagc agaggccccc tcgatgggag ggagtggcag gcaggagnaa 540
gggtggcgctg ccagggtgccc ggggtctattg gaggcgcccc atctcagact tcctaacaca 600
gcctgtgtgg aaggcagAAC aaagaatgca tgcccagtcA gaaatctgkt ctattctgct 660
ccaggaaaaat cggaaacctg tgagtcagag tcagagaaac ttaccaagc aacgtaattc 720
ctgttttcat gggtcctgta gatgtttgag tcaggaggta aggcggggag ttactaataa 780
actctgcctt ttaaattgag catcttggcc gggcatgggt gctcacgcct gtaccc 836

```

<210> 655

<211> 1188

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1158)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1162)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1175)

<223> n equals a,t,g, or c

<400> 655

```

actatatctg gcctttataa acttttttga ttcttgtcat aacacttagc ctaaaatgca 60
aatgtacagc tgtagaaaaa tactttatatt ctttatatcc ttattctaga agcttttttt 120
ctattaatatt ttgtttgttt gkttttgttt actatttact tctaaaactt ttttgttaaa 180
aaccatggca caaacacaca cattatgcta ggcatacaaa aggtcaggat catcagtctc 240
actgtcttcc acccccactt ctcatccac cattgtatct gctgtctgtg gctgaccaa 300
acatcatcat gtagcacatg actagtgtgg caagtgtctt gttagatgta aggccatgat 360
gctaaagcat cacaagaggg catctaacc agattgggga tgtcatggaa ggccgacatc 420
ctgagttgaa tcctgcaaat gtaaaaaacca ataggcaaa aagaggaaca aaaaggattc 480
caggacaaac tgaggtcaca tctatgatcc ttgactttat tgtgtctgtt taaagtatct 540
acagtaacct gtatcaactt agtcagtgtt ttaatactaa atttagctcc ttcaaagcag 600
ttggaactat gtgctacata aatttcagct tcacacaagg aagggaagga gtgaaattag 660
tgaacaggca gttacagcaa aagaaaaaac ataaaaattg aatagctggc tctggtgaaa 720
tgagcaagga ctttagagtc aaactggcct ggatttgaat cctgatcctc attgcttgta 780

```


451

```

gctgtatgat ctggacaaat gacagtaact gtttctaacc ttgattttct catctgtaag 840
atgccaatg taactcctaa ggatactgag gattttttta aatgcgtgta cagttcctga 900
ccagtggttt gtgcctaata acttattaca aattattacc cagtaaaaac cttgagacaa 960
gagtgaaaac gtaaagctaa ttaatccatt acttgtagc aagcaaacta cgtgcttgag 1020
aaaattactc aactttcatg ttttacttcc agacagtagt ttgattaaaa gaaaaaaaaa 1080
aaatccagcc caagcatggt ggcttacacc ctggcacttg gaaggcccaa ggtgggaacc 1140
ataagcttgg agccctanca anttttgaaa actanccctg ggggcaac 1188

```

<210> 656

<211> 1132

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (256)

<223> n equals a,t,g, or c

<400> 656

```

gacgcgtccg ccgcctccgg aactaaacgg ggtgaggtca cattcggtta tctctaacgt 60
tggaacacga tggagctaac acccattatg gagattaacc acttttcac aggtttttta 120
cttaagtcgt gaggaatata acggtgaaca caagattcat tttattttca tcaccatggg 180
acgtatcctg ttgttgagtt ctctgggtca gacctctgaa gacttctcag atggatccta 240
gtctctgggc ttgccntgaa attactcgtc gctcagggag agagttgaaa tggttggcat 300
cctcccactc tgttgcctcc gctgtgtccc ctgcgtctgt tgttccagct atgtcccctc 360
tgttgctcca actgcagctc attctgttag agttcctcat tcagctgggc actgtggcca 420
gaggggtgtt gcctgtctcc ttcctcaagt attcttaag ccatggattt ttgtggagca 480
tttttcttcc tggtctctcc ttgagttatt ttctttctt cgtatctctt ggactcttct 540
ttgtgcttgc ggwcacggtt tgagagaagg acttcttctt ccttgtctcc ttgggtgttg 600
ctcgtgggtt ctcttcaaca actggactgg aggtctcttg ttttctctt atcttcaaca 660
agtcagtctc tctcaagggt ctcacgttgc agcattctta ccagaggcca ttgggccttg 720
agttccagtt ccagtgtctg gagagtccac ctcagctcag caatctcatg ccggttggca 780
attgtcagca gaagccgatg cctgcccac agttctttac tctgaggtgt tagagtggaa 840
taaaaatata aatacttata ctagttttca tgacttctgc ttaatatagg gtattttttt 900
gttttgtttt gttttggcgg tgataggctt accttacatt aaaccaggcc ttagcctttc 960
tgtggctttt ttatgcaaag cctcatatta ctctctagtc tggttcagca ggacagtcag 1020
gtccacacct ggggctgttt gttttctacg ttacctcaa cataaggtag cttatcattg 1080
tcagccttca tctcctgac caaaataaaa taaaatgcca caggttactt ga 1132

```

<210> 657

<211> 566

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (283)

<223> n equals a,t,g, or c

<220>

<221> misc feature

452

<222> (461)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (483)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (495)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (519)
 <223> n equals a,t,g, or c

<400> 657
 aaaaaaaaaa caaaaaaaaaaaa aaaactactt ctaattagct caatattaat attttaacaa 60
 gttgggttgg taacagtata tctttgssca tgctggcaaa ttcttgtttt gtcagcattt 120
 tccataactc tggccaaagt gtcacctgat gtggcaacgt ttacagtct tgctattgtt 180
 tcttgagtcc tttaatctat aagatgtatt tttaaaaata tataacatat aaattttgtt 240
 tcgttatagc tctttaaaaa aaaaaaaaaa aaggggcgggc cgntctagag gatccaagct 300
 tacgtacgcg tgcattgcgac gtcattagctc ttctatagtg tcacctaaat tcaattcact 360
 ggccgtcgtt ttacaaccgt cgtgactggg aaaaccctgg cgttacccaa cttaatcgcc 420
 ttgcagcaca tccccctttc gcagctggcg taatagegaa naagcccgcga ccgatcgccc 480
 ttncacaacag ttgcnacagc tgattgggga atggggacnc gccctgtatc ggcgcatata 540
 gcgcggcggg ttgcggtggt ttgcgc 566

<210> 658
 <211> 1178
 <212> DNA
 <213> Homo sapiens

<400> 658
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 caggtgcatg gcraagagga gcgggccac cagagcatcc tgacacagcg ggtgactgg 120
 gccgagcgcg tgcagaarct tgacaccatc cgcactggcc tgggtgggcat gcttactcac 180
 ctggatgacc tccagctgat tcagaaggag caagagattt tcgagaggac cgaagaagca 240
 gagggcattt tggatcccca ggagtcggaa atgttaaact ttaatgagaa gtgactcgg 300
 agcccactac tgacccaact ctgggcaacg gcggttcttg ggtctctctc aggcacagag 360
 gacatacgga tcgatgagag gacagtcagc cccttcctgc aattgtcaga tgatcgaaa 420
 accctgacct tcagcaccaa gaagtcaaag gcctgtgcag atggcccggg gcgcttcgac 480
 cactggccca atgccctggc tgccacctcc ttccagaatg ggctccatgc ctggatggtg 540
 aatgtccaga acagttgtgc ctataagggtg ggcgtggctt caggccacct gccccgcaag 600
 gkttctggca gtgactgcg tctgggccac aatgccttct cctgggtctt ctctcgctat 660
 gatcaggagt ttcgtttctc acacaatggg cagcacgagc ccctggggct gctgcggggc 720
 ccarcccarc tgggtgtagt gctggacttg cagggttcagg agctgctctt ctatgagcca 780
 gcstccggca cagtgtcttg tgcccatcat gtgtccttcc cggggccctt cttcccagtc 840
 tttgctgtgg ccgatcagac catttctatc gtccgctgac ctctggccac aggaagccag 900

453

```

gtccaccgcc caccaccctt tcaggccatg tttctactca gtgtgctttt cccaaatgat 960
gtgtgtggtg tttctaagag aaacagggcc cataaccagt gggcagcttt aggagggatg 1020
gggatctgtt tcagatctag gcataacctg taaatcacag gtgtccaaac ttttggcttc 1080
cctgggccac atttgaagaa gaattttctt gggccacata aaatacacta acgatagctg 1140
atgagctaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaa 1178

```

<210> 659

<211> 924

<212> DNA

<213> Homo sapiens

<400> 659

```

gctatagtct gtkaaatgtg cagtagcgtt gtgtcttaaa aaatgtgcat acttttaaaaa 60
tgctttatatt aaaaaaaaaatt ctctgatca tcttgagcct tcagggagtc atgatctttt 120
tgctggtgga gggtcctgcc tctatcttga tggctgctga ctgagcagag tgggtggttg 180
tgaaggtycg ggtakctgta gcaatttctt aaaataagac agtaataaag ttgccacatc 240
aatgggactc ttcttttcac aaaagatttt tctggaagca tgggatgctg tttgataagc 300
attttaccga cagtagaact tctttcaaaa ttggagtcag tcctctcaca ccctgccact 360
gttgtactat gtttatcaat attctaaatc ctttggtgta ggctaaacaa tattcacagc 420
attttcacca ggagtaaatt tcatctcaca aaaccacttt ccaggctctt tctggactgt 480
agagtctttt ccaggctacc ttgtggcagt ttaagagtct ggcatcattt tccgctggga 540
cctaaggatc gaggagggtgc ttgtgactag actgccaatg gacccatcac aaagtttaac 600
ccaaccttga tccccgagtc ttcacaaatg ctactgaag aaaattccta gaacaattca 660
gggtcctttc ataacctcta ctctgaggyg ttaataaaaa accttagtaa cttaaaaaaa 720
atgagctgta cacaaatact gaacaataat gctacatatg ttaagtatgt aagaaaaata 780
tatactttga cataaataag aaacggtgag ttgataattg gatagaatgg tggatagagt 840
gakagatatg tagtaaagca aatataacaa aatgataatt gtacaatcta agtggttgga 900
ctataaatat gcacttccca caac 924

```

<210> 660

<211> 813

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (791)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (798)

<223> n equals a,t,g, or c

<400> 660

```

aggcgagtag catgtgcggg agactcacgt tgccggcgaa gtgggagaga gaaaagtggg 60
ggtgaacaca ctgtggggta gcttcgagat cagcaatgtg agactagccc gggtcatgct 120
gacacagttt gccgaggggc ggctggaaga tcaactggac aaatatgatc actgggctga 180
ccgcttttag gacctgcccc tctatttcat gactttccat ggacagcaaa gcatcaggac 240
tgtaatagat acaatgcaac atgcagtcta cgtctatgac atttgtcatg tgatcatcga 300
caacctgcag ttcatgatgg gtcacgagca gctgtccaca gacaggatcg cagctcaaga 360

```

454

```

ctacatcattc ggggtctttc ggaagtttgc aacagacaat aactgccatg tgacactggt 420
cattcacccc cggaaagagg atgatgacaa ggaactgcag acagcgtcca tttttggctc 480
agccaaagca agccaggaag cagacaatgt tctgatcctg caggacagga agctggtaac 540
cgggccaggg aaacgggtatc tgcagggtgc caagaaccgc tttgatggag atgtagggtg 600
cttccccgctt gagttcaaca agaactccct cacccttctc attccacca agaacaaggc 660
ccggctyaag aagatcaagg atgacactgg accagtggcc aaaaagccct yttytgga 720
aaagggggct acgacacaga actytgagat tkgytcaggc caggccccma ctcccgacca 780
gcagacacct ncaagcgntc aaagtgaagg ccg 813

```

<210> 661

<211> 1718

<212> DNA

<213> Homo sapiens

<400> 661

```

ggccgggcat cgcaggcgcc ctccctcgggc ctccccggccg ggggcgcgcaa cgggggagagc 60
ccggggggcg gcgccccctt tccgggcagc agcggctctt ccgccctgct gcaggcgagg 120
gtgctggatc tggacgagga cgaggacgac ctggagggtgt tcagcaagga tgccctcattg 180
atggacatga actccttcag ccctatgatg ccaacatccc ctttatcaat gataaaccaa 240
atcaagtttg aggatgaacc agatttaaag gatctcttca tcacagttga tgaacctgaa 300
agtcattgta ctacaataga aactttcatt acgtatagga ttattactaa gacatctcgt 360
ggggaatttg actccagtga atttgaagtt aggagacgat atcaagattt cctttggttg 420
aagggaatac tggaagaagc acacccact ctgattattc caccattgcc agaaaagttt 480
atagtaaaag gaatgggtgga acgctttaac gatgacttca ttgagacacg caggaaggct 540
ttacataaat ttttgaaccg aattgctgat catccaactt taacatttaa tgaagacttc 600
aaaaattttc tcaactgcaca agcttgggaa ctctcttctc acaagaagca aggtcctggc 660
ttgctaagca ggatggggca aaccgtcaga gctgttgctg cctcaatgag aggagttaaa 720
aaccgcccag aggagttcatt ggaaatgaat aactttattg aactatttag ccagaaaata 780
aatttgatag ataaaaatc tcagagaatt tataaggaag aaagggaata ttttgatgaa 840
atgaaagaat atggcccaat tcatattctg tggtcagcgt cagaagagga tctggttgat 900
actctaaaag atgttgccag ctgcattgac agatgctgta aggccactga aaagcggatg 960
tctggactct cagaggccct gcttcctgtt gtacatgagt acgtgcttta tagtgaaatg 1020
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gttttgacct atwaaaaggc agatactgat ctgcttccag aggagattgg aaaacttgaa 1140
gataaagtgg aatgtgctaa taatgccctg aaagcagatt gggagagatg gaaacaaaat 1200
atgcaaaatg atatcaagtt agcatttaca gatatggctg aggagaatat ccattattat 1260
gaacagtgcc ttgctacgtg ggaatcattc cttacatcac agaccaacct tcaactggaa 1320
gaagcctctg aagataaaac ttaatcccat tgaggacttc tgtttgatct ttgggagaca 1380
gcatttatta accaaaagta ttctttctgg atctgccgtg tccttataaa gtggatgaaa 1440
aatgttttgt acccatctgg aaaaccaaca acttgaaatc tcaggatttc caggtcactg 1500
acatgaattt gaagatatat ctatctgtat ggatatatat ctatatgtat atagatatat 1560
aaatacagag agatatctgg cttggtttta attatgttct taaatttggt tgccaataat 1620
tgcataatga ttttttttct taaatatttg actgtggaac atgccatttt aaatatgttg 1680
taaggactgt tttaataaaa agtttagtat gaaaaaaa 1718

```

<210> 662

<211> 1114

<212> DNA

<213> Homo sapiens

<400> 662

455

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gcggcggcgcg cgcaggggct ggtacgcgct gggcggcgag agctcatggc ggaggaagag 60
agcgaccaag aggccgaacg cctcggagaa gagcttgtgg ccattgtgga gtccccgctg 120
ggccctgttg ggcttagagc tgcgggcgac ggcagaggcg gcgctggcag cggcaactgc 180
ggcggcgcgcg tcggaatcag cagtcgggat tactgccgac gcttctgtca ggtggttgaa 240
gattatgctg gaagatggca ggtccctttg ccacagcttc aggttcttca gactgccctt 300
tgttgtttta caacagccag tgcacattc ccagatgaat gtgagcatgt acaatatgtt 360
ttgartagcc ttgctgtgag tttctttgag ttgctgtgt tctttggaag agatgagttt 420
tatgaagagc ccttaaagga tattcttgga tcattccagg aatgccagaa tcacctccgc 480
agatatggaa atgtgaatct ggaactggtg actcgaatca ttagagatgg tggcccatgg 540
gaagatccag tgttgcaagc tgtccttaaa gtcagccag catctcagga gatagtgaac 600
aaatatttaa gttctgaaaa tccactgttc tttgaactac gtgccagata cctaatkgt 660
tgtgaacgca taccggaagc aatggctctt attaaatctk gtataaatca cccagaaatc 720
agtaaagact tatacttcca tcaagcactc ttcacatgtc tgtttatgtc acctgtagaa 780
gatcagctat tccgggagggt attgtttgag actatttttg cctattacca ttttaaccct 840
acaaaaaaaa aacaaaaaaaa aaaaagtagc ccactgttgt tgttaaattc cttttacagt 900
aatgccaaag atttaaggat tacattatct ggatgtgttt tcttttgga ccataactta 960
aggtcatgtt gaattagtca aaatctgata ttaacaaatg atgaaatcaa taaaatatac 1020
tcattaataa gtattattca cattgcactt ttgatgtgat ggagaagagg tcaaataaaa 1080
gtcaacaagc tcacagcttg ccaggagtaa aaaa 1114

```

<210> 663

<211> 341

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (50)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (70)

<223> n equals a,t,g, or c

<400> 663

```

gattaaaagg atggctcttc ctaangtaat ttactctttg ttggttttan gaaatctttt 60
gcatgtatan ggtataaaac aacaactgtt tatatgttac ttccattagc cgatgaacta 120
gygktaaagt gatgcttcaa atagaaaata agttaattcc actaatagat tgtgttttca 180
ttaaagtcac aaacatgaaa taacacttta caaagttcat tttgttgagt atcttgcatt 240
actgtgaatt atattgtaaa gtagttttaa gtttaacatt aaagataaaa ttattatttt 300
tgctgttatg gtatgaataa aaaaatttga ttaactttta a 341

```

<210> 664

<211> 285

<212> DNA

456

<213> Homo sapiens

<400> 664

```

accatggcag tacacaggcc gccgccaatc tgcttaacac caaccagctt gacgcgcgca 60
gctttcacca tcgcgtcaga agcctcaatc agtgcaacca ggccccgggt ttcgatcatt 120
cctaattgctt ccattgtsct ttctctttta tcagggtcca gaacgggacc gttcattcaa 180
ccagtgtttg taaactgctt tcgcgggttc ctwctgtctg acgcggcaca gctgccacca 240
gcgccagctc gataatttcc tgcacgctac aaccacgaga gagat 285

```

<210> 665

<211> 631

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (581)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (589)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (608)

<223> n equals a,t,g, or c

<400> 665

```

atgaaaaata acagattata tatagtttga actatttttc gtgtgctttt ttaaacttgt 60
taaaaagaaa tttatataaa atttaaaata caaatgttaa attatccaga aatacagaat 120
agttaatat tctagaacca aataacctct aaaatgtttt ttttttggtt attttgtcat 180
gctaagcact tttgtatctg cacaattcag taggttaaga atcaatcttc tttttcttaa 240
tagtacagca gacttttagct tcaagtttca taggcttagt acttatatct agacatttgt 300
gtctaaataa gctttttcatt aactttttat tttaaggaca gtatcttttc atgaaagagt 360
atttggctga atgtttgcta tatatatgtt acttgaaatg ttaaatttaa tatgcagcat 420
accataggtg tatatatagg tatataattt taagggttaaa atattcagtc tacaagtttg 480
gttccttatt taagcttttg ggctaatact gcatatggca caatgtttta atattggcaa 540
kttcatctca raraagggga tcaratataw ttttaaagtt naaaaaaant tactgaaacc 600
tccccctnaa aagcctacct ttattttaaac c 631

```

<210> 666

<211> 1529

<212> DNA

<213> Homo sapiens

<400> 666

```

aaaatttgct gtaataccaa aactaacctc atcaaagata cagaaaaaaa gaaatatagt 60
gagccctaaa ggacacatac attgaataaa taattggaac atgtgggttat ctttagatcc 120
acatcttagc tgtcatttgt tcaactctaaa actgatgttc atctttctgt taatttccct 180

```

457

```

ctgcctaaag actacatgac agaaatgacc tatlactact tattatttct gaagcctaac 240
tgcaagactg atttctgaga acaagtaaag aactggaata cttatttttc atataaaaat 300
ctaaatgtgt taataaatca ttccatacaa aagtacatta ttaaataacc acattattaa 360
aataattgca agaaaatgga ccatatttac aatgttttgt aaacttgcta gtgtgtggat 420
atgtacccta cttgtgaaat acatttgaag atataaagag cagccaaaat gatggcaaaa 480
tggtaggcta atatttttcta ttattattgg agaacatata atattttgga atcatgcaat 540
tttgacacaca gtgaaaccat taattttcca aggtaatcc tttagaatat ggtattggca 600
tgcagtttct tacttatcta gaatatttgg cttatctgaa agatatcaat ttaagatctc 660
tggaagtgtt agaatttttg atccttcaca gtgtcaatat ttaatgaatc actaagcttt 720
atattattaga cgtgttgagt gagtgtctgag ttcttctgtg ccacttttgt taccattgtc 780
acacactatg tgtaaaccag tcccaccact tattactaat aaaattttga ctgataattt 840
atatttgcac ttacaatata tatatcctgt ccttatattt ctctagagta cttttccat 900
catgtttaag tgtatttctg ctattatttc ctctcctgca gaatacatac aagtgtatgt 960
gtataaagtc atacatgtac aagcatgcat attgagattg aatcacattt ccatactgtc 1020
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cattttaaat tacgratact ggacttattg gatttaatta taaatccaat tactactgga 1140
aactcatttt tacataatat agtccttaaa ttatttaacc cttgctaagt aattgacata 1200
tgtaacaata actagcctaa agaaacscwa aaaaagtatc tctcccgagc tgaaacttaa 1260
aaattcgtaa gtgtaagaaa gaatgtgaga atatatataa tgcacactgt accattagat 1320
gaaatcttac ttgagaaatt gccataagcc atattacaga tcttactttg ttactgaatc 1380
agattaattt cttgtttataa taattttcat cataaatttt ctatttttaa agccgctggg 1440
actagaaata ttcttttaat gctatatcta tgtacctact gacacatttt tctccataaa 1500
agtactttta aaaattactt catgatttg 1529

```

<210> 667

<211> 1020

<212> DNA

<213> Homo sapiens

<400> 667

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tcgacccacg cgtccttaag tttttcaagt tacccttttc tgaggaaaat tattctagag 60
gaacctaaaa agggacaaaa aaattgaaac ttcttaggag tctaactctg gtgccttctg 120
ttaaaagtca gtgtatcaga aaagaaagca gccatgtaag aggctaactt aartagaagt 180
gctagaaata tctttgtgta ttaacatgca ataaaaggta ccattcaaaag caggggggaaa 240
ggtaggaaga agaggtaatt tttactgaaa attagggcaa tgttggtcgc cttttattaa 300
aagctttttt taagctttca taaagattgc tttttgctat ttttgaaaat atggtattat 360
agtttgtatg gtaactggtc atatatgaca gtctactgca tatatatgaa tgactaggat 420
taatctgggtg tgtttacata ggatatacat agttgaaatc tagcatgaaa ggttaaaaag 480
gagatactgc acaatatattc ttaaaagtaa aatgctgtta ttgtgatgag tctttggttt 540
aacatcacag tattctgtga tgtcttttta acttttttga aagagggtatc attttagtaa 600
aaaatttgat ttgggttaaa tatagggttt taaaactata aatgttgtct tttttatatt 660
tttatgaaaa agcagtagaa aattactttt gaagaaaaca ggctatttaa atattgaaat 720
atatgtatgt tgtgagttta aggagcctgt aattgtcagt ttacaaaaac catctgtgtt 780
caatggttgt aaataaatc tcaaaacatc atttcaaagg ctgcctacag aatattatca 840
cttgacagat agagttaata aattaccaat caggcacatt ttataatgtt tgtctctgta 900
aaggtaatat tagcagttaa agaacacgga tgagaaaaga atgtgttaca taggttgcac 960
cacttgcagt taaataaaaac tcacaatttg tgctcacagc aaaaaaaaaa aaaaaaaaaa 1020

```

<210> 668

<211> 810

<212> DNA

458

<213> Homo sapiens

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (793)

<223> n equals a,t,g, or c

<400> 668

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ggcacaggnc atttttaagt gtttagagtt ttttggggtt tggggtgggtt ttttttcctt 60
gttttccttt tttcctttta attggatgca ctgacctggc ccaggaaatg aagagattct 120
cttttgatgc tattaccaat gttatcataa agtgacagtc acctgtaaca aaaagggtggc 180
accagacatg atcactgatg ttttatttgc acatcaatat ttttattttt gtattctggc 240
tcagctgctt ctctgagtgg agttaaggaa tgagccacaa agatttttgt agtaggtata 300
ttggcattgc attttatatt cctctatatt taattttgaa aacctaaaag aaggattgtg 360
catcttgaga gaaagttgag caaattgtga tctagcggaa tgtaatttg tgctgcttct 420
tgtgcacgat agcagcagta gtatctctct tggaaataaa catcccatat tatgatgtct 480
atgaatatag gtttcctttt ctctctctcc tccctccttc cccacacctt ctcttttttt 540
tttctctctc agcttctctt ttctctcttc cctcttccct tcccttttct ttactttttt 600
tgaaatcact tattgtaaat aagttgtaat ccaaacctca tgtatcaatg gggaattttc 660
aaatataaat attaccaatg cattttcttg ktggtggctg atttttgatt gaagataatg 720
agaatgacat gtctggtgct ttkggttgag gactcgctta gctcataaac tttkggattt 780
tagaattcaw tgnttaacct ggaaaaggcc 810

```

<210> 669

<211> 2501

<212> DNA

<213> Homo sapiens

<400> 669

```

taaatatgca tatagtagag tgcaaaaata tagcaaaaat aaaaactaaa ggtagaaaag 60
catttttagat atgccttaat ttagaaactg tgccagggtg cctcggaata gatgccaggc 120
agagaccagt gcctgggtgg tgccctctct tgtctgccct catgaagaag ctccctcac 180
gtgatgtagt gccctcgtag gtgtcatgtg gagtagtggg aacaggcagt actgttgaga 240
ggagagcagt gtgagagttt ttctgtagaa gcagaactgt cagcttgtgc cttgaggctt 300
ccagaacgtg tcagatggag aagtccaagt ttccatgctt caggcaactt agctgtgtac 360
agaagcaatc cagtgtggta ataaaaagca aggattgcct gtataattta ttataaaata 420
aaagggattt taacaaccaa caattcccaa cacctcaaaa gcttggttga ttttttggtg 480
tttgagggtt ttatctgaag gttaaagggc aagtgttttg tatagaagag cagtatgtgt 540
taagaaaaga aaaatatttg ttcgcgtaga gtgcaaatta gaactagaaa gttttatagc 600
attatcattt tgagatgtgt taaagtaggt tttcactgta aaatgtatta gtgtttctgc 660
attgccatag ggcctggtta aaactttctc ttaggtttca ggaagactgt cacatacagt 720
aagctttttt ccttctgact tataatagaa aatgttttga aagtaaaaaa aaaaaaatct 780
aatttggaag tttgacttgt tagtttctgt gtttgaaatc atggttctag aaatgtagaa 840
attgtgtata tcagatactc atctaggctg tgtgaaccag cccaagatga ccaacatccc 900
cacacctcta catctctgtc ccctgtatct ctctctttct accactaaag tgttccctgc 960
taccatcctg gcttgtccac atggtgctct ccatcttctt ccacatcatg gaccacaggt 1020

```


459

```

gtgcctgtct aggcctggcc accactccca acttgacctt gccacattca tctagagatg 1080
gttcctgatg ctgggcacag actgtgctca tggcacccat tagaaatgcc tctagcatct 1140
ttgtatgcat cttgattttt aaaccaagtc attgtacaga gcattcagtt ttggctgtgg 1200
taccaagaga aaaactaatc aagaatataa accacattcc aggctgctgt tttctctcca 1260
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gtttgcttat attgctacag aatgctctgt tttgggtgct tgagttctgc agacccaaga 1440
agcagtgtgg aaattcactg cctgggacac agtcttataa gaatgttggc aggtgacttt 1500
gtatcagatg ttgcttctct tttctctgta cacagattga gagttaccac agtggcctgt 1560
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aaggaccacc aaaactttta gtaccctatc attaaaaatc tggtttttaa agtagctcaa 1980
gtaagggatg ctttgtgacc cagggtttct gaagtcagat agccattctt acctgcccct 2040
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aacatgtcag aaaattcaga ggggtgcata ccaataatcc tttggaaact ggatgtctta 2160
ctgggtgcta gaatgaaaat gtaggtatct attgtcagat gatgaagttc attgtttttt 2220
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atgaggcaaaa aagagcaaat agtttgtata tttgtaatac cttttgtatt tcttacaata 2340
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gaattactct cctggctatt ttctttttta cttaaatgta aaatgagtat aactgtagtg 2460
agtaaaattc attaaattcc aagtttttagc aaaaaaaaaa a 2501

```

<210> 670

<211> 429

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (369)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (380)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (410)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (415)

<223> n equals a,t,g, or c

460

<400> 670

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ctcacttcg gcatgtgatc ctgggtatca ggtgttacat tatatagtat ttacagagg 60
aagtagctca gcaaatttaa ctggcctcag agtctgtggt tcagttggtt tgcacagggc 120
taaaagctgg tgagtgggtt atacaccatc acaaaggatg cccattcttc gcagtgactg 180
cagatgctg cgagcggaga gcacaaggat ctcactatca tttctccctg ctaactccta 240
gaaagctttc cactttcttg gacacgttat ttaaagtgtt atagtttggt tttttaaact 300
tgtgttcaga aaacacttac caccatattg cttcactgta ctattccaat tcagctcctc 360
tgttaccna actctatatn gtgcttggt aactattcca tgaaatttan taccnggaag 420
aaattaggg 429

```

<210> 671

<211> 1482

<212> DNA

<213> Homo sapiens

<400> 671

```

cagggcactg agtgattctg gatgggcttc tgacctgggg acaatttaaa cagcattaca 60
accgacattt tggttttctt ggggatttta taggccaggt acaaagcaga aagtgcata 120
aagatgtgat ccactttgcc tgggaagaga agctctttct cctggctgat gaggtgtacc 180
aggacaacgt gtactctcca gattgcagat tccactcctt caagaagggt ctgtacgaga 240
tggggcccg gtactccagc aacgtggagc tcgcctcctt cactccacc tccaagggct 300
acatgggcca gtgtggttac agaggaggct acatggagg gatcaacctg caccctgaga 360
tcaagggcca gctggtgaag ctgctgtcgg tgcgcctgtg cccccagtg tctgggcagg 420
ccgccatgga cattgtcgtg aaccccccg tggcaggaga ggagtcctt gagcaattca 480
gccgagagaa ggagtcggtc ctgggtaatc tggccaaaaa agcaaagctg acggaagacc 540
tgtttaacca agtcccagga attcactgca accccttgca gggggccatg tacgccttcc 600
ctcggatctt cattcctgcc aaagctgtgg aggtgtctca ggcccatcaa atggctccag 660
acatgttcta ctgcatgaag ctctggagg agactggcat ctgtgtcgtg cccggcagg 720
gctttgggca gaggaaggc acttaccact tcaggatgac tatctctct cagtgaggaga 780
agctgaaaac ggtgctgcag aaggtgaaag acttccacat caacttctg gagaagtacg 840
cgtgaggacg cctgagcccc agcgggagac ctgtccttgg ctcttctct caatgcccgt 900
caggctgaac tcgcctcccc cgtgactctg cctcgggct cgcagaggcc gctggtcact 960
tcgtcatcat tttgccctg gagacgtctt tctttgtgct ttgatgttga gagcgcctct 1020
cttttgagca aacaagcatt ctatatgcaa ccagagtaga ggggacctgc tcagcagggtg 1080
tgaccagggt tctctgaatc tgttattgtt tttgcttctg gaaagtctat ttgggggtta 1140
caacaactag gatgtgttg gtgagatgtt tcagatctgg agaatgagc aggtgtcggg 1200
aaatgtgtga cttaaccgtg gtgagggtg gaaatccaaa ctcaccacca tgatctgtgg 1260
catcaggctt ctcccagtac aggagggtgc catccccag catgaggctt ctctgccatt 1320
agcagccctg ggcgggcca ccacactcga ggtgagggtg ctacgggctt agcctcgcct 1380
ccctcactgg gagcttcccc atcctcctg ccttccccag tgggaagtta ggggaagctca 1440
ggagcctggg accccgcatg tcccaaatg ggattggaga ag 1482

```

<210> 672

<211> 607

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (499)

<223> n equals a,t,g, or c

461

<220>
<221> misc feature
<222> (585)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (596)
<223> n equals a,t,g, or c

<400> 672
aattcagcac gagatgtcac attgaagaat ttcttcatga tacattttca ggcacacttg 60
taggaaaatt aggatcatga gtcctgcttt aagtatttgc agtgtagtaa gagaatccat 120
cttttactag gagaccagat tccttttata cctcattcat catgctggat tgtaataaat 180
ttcagatttt ggaatgggct tatttaactg acctaacaat cttgatgatt tccattagaa 240
taacttattc taaggtcaaa agtggaaaga cactgttggg ttttattttg atttcactat 300
actcattttt gaacatggaa atacagtggg gaaaccmctt atgcaaaaat gataacagtg 360
aggaaattat gacagtgaaa gagatctgac ctaactatct atcttgccctc gaaactgccc 420
ttggtcgttc ctgagtgtgg gccaaagctaa ctttgggaga aatttacttt atagggttaa 480
ttataatagc ccttcccna aactaaacgg attctcctgc ctcagcctcc cgagtagctg 540
tccttataat accatcagcc tatcatttat tcgtcatggg atggnttggg tcccanatcc 600
cctatcc 607

<210> 673
<211> 470
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (389)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (469)
<223> n equals a,t,g, or c

<400> 673
ccattcaacc cagtacaaaa tccaactgaa gccagcaag tggtcatgc ctgttctatc 60
tctgaggaca gttgtgattg gatttagggc ccatccagtt agtccaggat gatctcatct 120
caagatccta aatctgatta caattgcaaa gatccttttt ccaaataagg tcacatgcac 180
gtaagttccg gggattatgc ttgcgtggga cacatctttt ttgaggccac cattcaaccc 240
actacaaaat ccaactgaag ccagcgaag tggtcatgc ctgaaatccc cgcactgtgc 300
gaggccaagg caggagggtc acctgaggcc aggagttcaa gagtagcctg ggcagcgtag 360
ggagrtcock atctcttttt ttttctgana tggagtttct ttcttggtac tcaggctgga 420
atgcaatggc gcaatcttgg ctactataa cttcctcctc ctgggttcna 470

<210> 674
<211> 1110

462

<212> DNA

<213> Homo sapiens

<400> 674

```

ggcagagctg ttttggagat tgattgggtg ggtctagagc cagaattcat atttttaata 60
tgcattccag gagactcctg cgaatcagat gcatttggaa atcattgcac taagtcatac 120
ctctgggtac tccaaacagc tagtcctgag gcttccttgg gccttagaat tttttcttca 180
aatgtcctgg tgaggtcctt ctcaatcctt tggggctggc tgtggtgagt cactcagaag 240
tctggctgtg acctgggatg ggctcaccag agtacgctat ggtagtggga aaacaggcag 300
agagaaaagga gtgtcaggag cactcccagg gaggtgttg tagatatttc cattcccaga 360
acagtgatct attgtgacag tctcagaaca gacaacaaga attacaggta attttctcat 420
tctcttgata tatttttagc aaaacttaaa tcatgaatag aaggaaaaga tgccattggg 480
gaaatagaaa aactcaatca ttttataaag catacaaatc ataaggatga ctggccaata 540
gcactcccac tttggtctta cctaaagtgt ggtggacaag aataataaaa gtcctcaktt 600
tatatccttc caaaatcaga tttaaatgct gccagcatct taatggaagt ctgaaattga 660
ttgataggat gtgaaatcc aaattcacta aaataggggg ccagctacat aaagtcctag 720
aaggaaaaag tgcctcgctt ttttctgcca ttatcctacc ccctagtcat ctggggaatt 780
gatctatgaa gcttgaagaa ggggcattta acatcagagt ggtgcaaggg cagtgttgag 840
atgctttaag cagcagcctg agcttttagc ctatttgaag gggagaagggt taataactaat 900
aatatttgtg ttatttttat gatataattac tgtttacaga acactttcat ttgatcccaa 960
catcaactgc tgtgatagag gcagggcaga tgttgtggtc tcattacata gaatgtaaaa 1020
ctgaggttga aaaataactaa gtgacttgtc tgtagtcaaa tggtttttaa aattataaag 1080
ccaggccttc tgactgtcaa aaaaaaaaaa 1110

```

<210> 675

<211> 250

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (245)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (246)

<223> n equals a,t,g, or c

<400> 675

```

ggcacgagcg gcacgagcta gttcctaatac ttaatctagc ttcaacattg ccctgcttgc 60
aaatttacta ctttttaaaa tgacttgaat cttctctatt ttcacagttc ttgtctattt 120
tttccctgta acagtttgta tgaacactaa tgtggtgttc aaccctccct ttcaatttta 180
gagaattgga ttctatatattg gaacgtcact taaatttttg agtcctcaaa accaaccttg 240
ttggnntggg 250

```

<210> 676

<211> 692

<212> DNA

<213> Homo sapiens

463

<220>
<221> misc feature
<222> (50)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (73)
<223> n equals a,t,g, or c

<400> 676
tgggggctct ggactgtggc tcacccgctt cctccacacc ctattttcaen ggccctggagc 60
tcccagggga ctngaagctg gacgcgccct acaacttcaa ccacccttty tccatcaaca 120
acctaattgtm agaacagaca ccagcacctc ccaaactgga cgtgggggttt kggggctacg 180
gggctgaagg tggggagcct ggagtctact accagggcct ctattcccgc tctttgctta 240
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gctcttgggg cctgacccct ctggtgacac ttcacttgct ccattgggta acatctgggt 360
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actgtgataa ccaccatgtg ccatgatggc tgctgcagcc ccgtgttggc catgtcgtea 480
ccattctctc tggcatgggt tgggtagggg atggaggtga gaatactcct tggttttctc 540
tgaagcccac cttttccccc aactctggct caggagaaac cagaaaaggc tggtttaggg 600
gtggggaatt tctactgaag tctgattcct tcccgggaag cggggtactg gctgtcctta 660
atcattaaag gtaccgtgtc cgctctttaa aa 692

<210> 677
<211> 362
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (356)
<223> n equals a,t,g, or c

<400> 677
ttgatacgac tcactatagg gaaagctggt acgcctgcag gtaccgggtcc ggaattcccg 60
ggtcgaccca cgcgtccgat tgttttgtat tttctagagt tttatataaa tgggaattaca 120
tagtatgtac ttttctttat agtctggctt ctttcaactca aataattatt ttgagattct 180
tctctgttgt tgcattgtata aataattcat tcattttttg tagtaatatc ccattatatg 240
ggtataccaa aatttatcat tcatttggct atgagcattt ggggtattta cagttttatt 300
tacaawtaaa gctgttacga atattagtgt acgagtcctt atatggacat atattntcat 360
tt 362

<210> 678
<211> 334
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (87)

464

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (91)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (326)

<223> n equals a,t,g, or c

<400> 678

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aggattcagg ctgcagaaca taagacacgg aaagacgaaa aacgcaaagc tgaggaagcc 60
ctcagtgacc tcagacgtca tatgaanctg naagtaggag atctgcagg gaaccattaa 120
aaagctaaga aagctcgaag aacaatcaaa aygcgtaagt caaaaggaag atgtggctgc 180
attgaaaaaa caaatattatg atttatcaat ggaaaaccag aagttaagaa agaccttta 240
gaagcacaga caaacatagc ctttcttcag agtgagttag atgctttgaa aagtgrttat 300
gctgacmga gtctgawtac tgaaanggat cttg 334
```

<210> 679

<211> 613

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (571)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (583)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (590)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (601)

<223> n equals a,t,g, or c

<400> 679

```
gcaggaaggg tagaggggac tggagttggc taagttctct ttctccaagt caggtaagac 60
tctgggtgcag ctttttcctt tgggtgtctg gcctttattg tggaaaatgc tatgggttca 120
tttcaaaaatg gctatctttc aaacctgagc atatttcaaa atagttactt ttttcctgcc 180
catgggtcaaa caagagagtt ttctctctgt cttcgccatg agaacctggg agggcatctg 240
aaggtaaaat ccgtgaatgt atgagggctg cctttaactt aaacttgaaa cctcccaggg 300
```

465

```

gatttttatct cacaagcctg atcagtgttc aagytccaac agytaatcaa ttatcattta 360
agcattctta gctgctcatg cctccagcag tttcaaatcc tggcaaacta tgattctgtg 420
tatttgcccc tcgctccagt ttttggggca tgagtttttt tctgtaactt ctggctctctg 480
atggatctca gaaaattcat taattttcaa tttgtacatc ttttctcttg gtaggacagg 540
aatgatcatt tacaagctct ttatatgtca nagcccaaat canaagctgn aataatccca 600
naaattgggg ttt 613

```

<210> 680

<211> 400

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (362)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (375)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (378)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (388)

<223> n equals a,t,g, or c

<400> 680

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ggaaccaggc tgtggtcctg acctccagca gctgccagtc atcttggcaa catagaaaat 60
caaggaaacg gcctaaaggc aggcagaagt gtgtgtcagc aagggtccaa ctatgtaaga 120
tggaacagag ggactcacct tcagggagga aagagccggg gcagaacgctc aggagactgg 180
ccaaagggtcc ttccctgcct tcaggacgag actagactcc tcagtcctgc atttmagget 240
cctgccaccc gcctgctgct cactgatccc tccctccac tgtcggcctc catccagggtg 300
gcagtgcctg cgctttgtma ggctctctct tgtctctgca ttttgcacaa gctctgacct 360
anttaccgaa atgtnctnca accacctnca tcttgcattgt 400

```

<210> 681

<211> 585

<212> DNA

<213> Homo sapiens

<400> 681

```

caaagggttt tctttgaaga caggtsaaat gctgttagta agtttcagga gattgttaat 60
tcctcagtta taccagattt tataaaatat ttgagaatag atggctaaca agagggttaga 120
aatacttttc cttaatttta atccacagta tgttacatgc attctaccac tacatthttgg 180
tgctatttaa ggtgtgcamb tttctatagg tgactthttgc aattcagga agattthggc 240

```

466

```

atatttaaag aaagaatatc taattggggg aggtgtgaag ggaaagaaat tcttttcaaa 300
agctgaccac aaagagkagt taaaagtttt tgtcactatc ttcacaagtg tgtaaagcac 360
agatttcaac agagtgcctg gcatattgka ggggtgctcaa tgggtggkttt tattattatt 420
actcagattc cacagtggca agaaacatca ttctacataa tggaaaacat ttacatcaaa 480
tcccacttac tttaatgcga acttggagat aatttatggg attgtattgt aaaccattaa 540
tgaaaacttt ttcacagttg agtgaaatta aaatcactat atctc 585

```

```

<210> 682
<211> 610
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (576)
<223> n equals a,t,g, or c

```

```

<400> 682
ttgcagctat acaaaatatt taaaatctca agtattcacc ctagatagag ttattatcta 60
agcattttat cttatccatc tcaaaaagaa aagaaaagaa gactctgacc tgtactcttg 120
aatacaagtt tetgatacca ctgcactgtc tgagaatttc caaaacttta atgaactaac 180
tgacagcttc atgaaactgt ccaccaagat caagcagaga aaataattaa ttcatggga 240
ctaaatgaac taatgaggat aatattttca taatttttta tttgaaattt tgctgattct 300
ttaaatgtct tgtttccagc atttcaggaa actttttttc ttttaagcta tccacagctt 360
acagcaattt gataaaatat acttttgtga acaaaaattg agacatttac attttctccc 420
tatgtggctg ctccagactt gggaaaactat tcatgaatat ttatattgta tggtaataata 480
gttattgcac aagttcaata aaaatctgct ctttgtatra cagaatacat ttgaaaacmt 540
tggktatatt accaaaactt ttgactagaa tgctcgnattt gaggatataa acccataggt 600
aataaacccc 610

```

```

<210> 683
<211> 415
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (377)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (383)
<223> n equals a,t,g, or c

```

```

<400> 683

```


467

```

tcatatTTTT antTTTTTTT ttttctgtta tacaaagagc agatTTTTat tgaacttgtg 60
caataactat attaccatac aatataaata ttgcacaagt tcaataaaaa tctgctcttt 120
gtatgacaga atacatttga aaacattggt tatattacca agactttgac tagaatgtcg 180
tatttgagga tataaaccca taggtaataa acccacaggt actacaaaca aagtctgaag 240
tcagccttgg tttggcttcc tagtgtcaat taaacttcta aaagtttaat ytgagattcc 300
ttataaaaac ttccagcaaa gcaactttaa aaaagtctat gtggtcagtc actactcttg 360
ctgcagttat gaaaaanaat gangccaagt ctgatgaaaa taaacttatt ttgaa 415

```

<210> 684

<211> 653

<212> DNA

<213> Homo sapiens

<400> 684

```

ttagcttctc attgagattc ctagaggtgc gttcgagttt tcagagtaat tttccagacc 60
aaccagcgtc agtgggaaat ctgacctctt ttggcaaact gcgatcattc attttcctga 120
gtccccgtgt ggggtggggg aattctgcct caggaccttg aggggtcttt ggggcaagat 180
ggccttggtta atgcagccac taagaacagg acttcattca aaggcataat gaagtaacca 240
gggtgaccat caagtaaaat taaagcaca gatcattgta ggaggcttcc ttgtcaaaga 300
cgtgaacgtg ggattttcaa cgcaccacgg tgtgtccact catcactgca tgttaggaac 360
tgctgtctct ttgggacacg agttaaaaga acacactaat ttctggagtg tgctgcagc 420
ttcacggcct tcattttgtt actaagttat tttctggaag aacagcaaaa atttcaggtt 480
gaaaacagaa ctttccaagt gctactgaaa ttccgcagag aattacgctg cgatggtggg 540
tttcttacc ctagaaacatc ctaacctgta tccacagaag atgtcctttt atttttttaa 600
aagatcaata aatcaagag aaacgaaaaa aaaaaaaaaa aaaaaaaaaa aaa 653

```

<210> 685

<211> 319

<212> DNA

<213> Homo sapiens

<400> 685

```

gttcagcctc agcacgcctg cccccaggcg ctcattaaaa cagcatgttg ctccccactg 60
cctcgtgttg tctgttggcg cgctgtcggg gttcgaaccg atacaagaac cttccacctt 120
cctggtgctt tggcctcacc tataagcttt tccactgtcc tgaaacaaga tagaraatct 180
gagcggccag tcactctgcc taagtgtctc cgccgaagac tgaatgtcct ggaaagtgtg 240
ctgtcacatc tccattatga caaaagcatt gtgccgaaca gatgaaaaaa tgcattgtca 300
acggaatctt ttatgttag 319

```

<210> 686

<211> 281

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (253)

<223> n equals a,t,g, or c

<220>

<221> misc feature

468

<222> (260)

<223> n equals a,t,g, or c

<400> 686

```

gacctgttctg gacctgtata aaaatgtcta cacagtagaa gtgacatcaa ggtttaataa 60
gtatatcaat gattggcaca tataaaaatt gttgaaccac atactctgaa cttggctaata 120
ttagttactg caggcctcca ttatccagtt ttatttttta cacgrttgac cttgccttgt 180
agctgggtgct gtgtagacct gtgttgraaa cacaatcgga atatatgaat aattgaataa 240
acagcattat ggngaggcan agacacatgg agaagtgtta a 281

```

<210> 687

<211> 178

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (111)

<223> n equals a,t,g, or c

<400> 687

```

gctggtcagt gcagcccat tctgacatta ctatgaggtc ctggatatcc attccttggg 60
gaggaccagt aagacatctg ctccatccct ggaactggat aatttttgaa nataaaccag 120
ggacctagcc aacagaatgc cttagcaatg cccaggggtc aatgggctg gcattctt 178

```

<210> 688

<211> 337

<212> DNA

<213> Homo sapiens

<400> 688

```

ggtaggaggc aaagcagtggt gtctctctca ccagccgctt acgggaccct gccatgcctg 60
gacctctcta tcaggaagac ctacccacgc actactggaa aatcagccaa tcttaacca 120
aagatggcca tgatttctgt atgtgagacg tcttaaggggt gtttttgttt gttttaatca 180
gccctcttgt ttgagatttg gcaatacatt tctgttttct argttatttc tgtgtctgat 240
ggtwgargat ctaataagta ttggaatgct tcctatttgc tgatagaakt accaaatagt 300
attattgaag tctaacaaag acttttgttg agaacac 337

```

<210> 689

<211> 1135

<212> DNA

<213> Homo sapiens

<400> 689

```

gccgaatagg tgtttccttc attgatgatg gaagtaatgc aacagagtaa gtaccattcc 60
aggagtgtct aaagccgagc tttgagtgtg catgattgat aggacttgaa gaataaaaat 120
agaaacaatt gacctctcag gtgagaaaagt cacacaaaac aagctactgt taaaagactg 180
aatattttta gttttctgta aattatcagt tattttttcc agtctcctta gaaaaatggc 240
aacacagatg gtagctgcac agcttgcatc aatgggtgtg aataacccaa gtcagcaaca 300
atztatgcaa tttggaggaa gctctggatc acagttgcct caaatccaga cagatgttgt 360
acttccatca tgcaaaaaaa aagctcctgc tgaaactcct gtgaaagaaa gactttttat 420

```

469

```

tgtgtttaat cctcatcctt tacctttaga cgtattagaa gatataattct gtcgttttgg 480
taacctgatac gaagtttacc ttgtgtcagg aaaaaatgtg gggatatgcca agtatgccga 540
tagaataagt gctaatagat ccattgccac tctacatgga aagattctga atgggggtgag 600
acttaaagt atgctggcag attcgccaag agaagaatct aacaaacggc aaagaactta 660
ctgattcttg agtggccctg aagctgcact atgttggagg ttcccttgac taagagaacc 720
acatgcggca ttcagctcag taggggagtc ataaaagatc tcgcctctga ccagaagagt 780
atgaatgaca aaggtgacat aaccagcaca gaaagatgtc ttagcctctg cacatcagct 840
gatttagaat acttatgtag atagcggttg gggtcggggg ggtscggaat gttcttttca 900
gcttctttgc ccygagaact ttgatcttat tgcaaggaag tcccttacc tcttctacc 960
tagatctgat ggacctctg ggatttctg gggaaatraa atgagtctaa cacctttgac 1020
cacctgctgg atattatata agcacttact taagtaagct gtggaagagc tgaaagcagt 1080
attcagagtc tgacagttct ctgcaattgg cctagataaa ctcattgtga aataa 1135

```

<210> 690

<211> 428

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (385)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (427)

<223> n equals a,t,g, or c

<400> 690

```

aagagcgaaa ctccatctca ggaaaaaaaa aaaaaaaaaa tatattctaa cagacagatc 60
agaggtctaa gagatcctcc cttgctatta ttacctgaag tctgtagaac tgtttacaga 120
tatctccttg acaggtgtcc tttatcttac tttatctgta cagtaatcct gtgagaaaga 180
caggacagaa accactgtgc ctatctttaca gatacgaaaa ctgagacaca ggtaaagggg 240
cttgtctgta gtcccatagc tagcagatgg ctggagccaa gactgaggct cgttcttcaa 300
tgctgagcca gggtccttcc gctgcaccac aagaacgcta gaccactcgc caccagcctt 360
ttcattccct cttcctccat ttaancaatt ttaagctggg tgggcctccc aaagggtttt 420
gggaaana 428

```

<210> 691

<211> 1287

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1281)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1285)

470

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1287)

<223> n equals a,t,g, or c

<400> 691

```

aagaaatcgg gcgctatata cctgtaacag gagacagawt tggacamcaa ggrttttaag 60
agycattgcc cattgtaaag cattaagcca gagctgggta ttcattatca gactaactac 120
atactagtcc atgctagtgt cagcctatat taaaatagtc tttccttgcc atagtgctgg 180
cgaaaaccca atccccttctg atgaaacatt gcttcttggg aagacaagct gaggaaagca 240
atgaagatcc cagtgtcggc ctttattgag ctatgtatga gggtcagggt cctcaactc 300
ctagtgacta tgaagcagca gtgtgatggc ttgcacctct ttgacctct gtcataactc 360
ctttgcatgt ggctatttta agcttctcag ctttcttttg ggaggcttca tgtgtaactt 420
attatagaaa tgttactgaa aagctgccta aacaaaaaat tgtataaagt aggaatttgt 480
ataaagtaat actgttgtaa atccatcttc aagatgtaaa gaatcaattt gtaaagtgt 540
tattttcact tctcccttca aatttatgtg aacaagtttt tcatgtttca atattgctta 600
cataggaata caccttacgt ttttatcagt ataaatggaa catttaaaac cagtcaacaa 660
cagaacagat aatccagctc cctgtttgtg ttctggggtta attttgcaag gatgaagggc 720
tagaaaagtg tgagtttggg tgtgtttctt attttcagga taaccggctg cattgcagta 780
gaggaatgga atgggtgaggt catttgacct gttccagggt agtggaggcc aaagaacatt 840
gtttctgcct ccccttggtt gggaaaattg agaaattaaa aagttgcctt tccgaggaaa 900
caaaagttat tttctctatt taaaataaat gtccaaaggc acccctctaa acacaaaaac 960
ttttagctcc tggcaaactt acctagctag aagttggaga agagtgcggt ttcaaaccat 1020
gcttccttct tgccttggtc aatacgttct cactgactgt gattctgctg tgaacacaca 1080
cacacacaca caaacacaca cacaagcccc ttctgtgtat gatcaggaca agtagttcaa 1140
cagttaataa aaaagttaaa ttattggatg agaaagatat atttaacct aatcataaat 1200
atgtawatcc atttaataaa cactaaaatt gagaaaaaaa aaaaaraaaa actcgagggg 1260
ggcccggagg ccaattcggg nctgnan 1287

```

<210> 692

<211> 351

<212> DNA

<213> Homo sapiens

<400> 692

```

cctgtctcaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagccct 60
ggtgttccaa actcagtctt tcctgaagaa gaggatctga gttatcttct gaaacagcgt 120
tctcccttcc cagttgtatc actcttataa aaagactgtc cagtctatgt catgccctag 180
gagacaaact gttcctccca gcccccttgg agtattgagc agaagaatca aattattaaa 240
tacgtatgtt tgtacagaat ggtatttgtg tatgtgtgtg ggcttagaga ttcacaagta 300
aatattcctt tgggtgaagga atttcaataa aaacatctat caagtgtcaa a 351

```

<210> 693

<211> 1204

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

471

<222> (1010)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1080)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1201)
 <223> n equals a,t,g, or c

<400> 693
 ggcaaggaca aagaagattc cttttctggg agtttgtctt gggatgcaac tagcagtgat 60
 agagtttgca agaaactgcc ttaacttgaa agatgctgat tccacagagt ttaggccaaa 120
 tgccccagtt cctctggtga ttgatatgcc cgagcacaac cctggcaatt tgggaggaac 180
 aatgagactg ggaataagaa gaactgtttt caaaactgaa aattcaatat taaggaaaact 240
 ttatggtgat gttcctttta tagaagaaag acacagacat cggttcgagg taaaccctaa 300
 cctgatcaaa caatttgagc agaatgactt aagttttgta ggtcaggatg ttgatggaga 360
 caggatggaa atcattgaac tggcaaatca tccttatttt gttggtgtcc agttccatcc 420
 tgagttttct tctaggccga tgaagccttc ccctccgtat ctggggctgt tacttgccgc 480
 aactgggaac ctgaatgcct acttgcaaca gggttgcaaa ctgtcttcca gtgatagata 540
 cagtgatgcc agtgatgaca gcttttcaga gcccaaggata gctgagttgg aaataagctg 600
 aaatgaatac atgactggga ataattggga ctgcctgtga ggcctctgaa ataattgaag 660
 gcaagatgaa ggaactatct gaagaaatca ctacactctt agagaatccc tctgttctcc 720
 agcaaacatg ggatgtaaag cctcacaggg aatctgataa tacatacttc tgtcaaccag 780
 aaccagaggg gtagttttct tttccctcca gaggcagcct ttggtactta aaatatctgt 840
 agctgattaa atttttccca acaacctcac tggggagaaa gtgtgttcat gttttgtcca 900
 gcggtatcagg atgttaggat gacgagcaag agtccaggtc actgtgcctt tgctgtgttg 960
 tatggaaagg atggcaggga acatgctgta agtaattttg agtaagaaan tgagtcaactg 1020
 tgttacctgg aactcagcca cagatttgtg tgtggtccaa gatcattgca gtttctcacn 1080
 ctgttttattt cctggtaaaa gtaaaattga atagggtccaa gacttggggg tggcaagtaa 1140
 ggctttgcct caagcacaaa atttaagggg gctccaaaaa actcaggaat ccaagggggg 1200
 nggg 1204

<210> 694
 <211> 283
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (237)
 <223> n equals a,t,g, or c

<400> 694
 gccagcccag gtcttgagg agcacaaatct agtgttctac acaatggggtt tttccatggg 60
 tctccaggag agctattata caccagaag atccagcctt taccagcgct ctctcctttt 120
 tctctcttgc tccccctccc tatgccagg agtaggcaaa gkttgacatt tcgcacctcc 180
 attgcccasc tcattctaag gcctttattt aaaggtggat aatggcacat araaaaanttt 240

472

ttctataaca ggtagcaca tttcctatgg tgctttggaa ttt

283

<210> 695

<211> 2733

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (431)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (449)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (456)

<223> n equals a,t,g, or c

<400> 695

```

cacgagcaaa ggtgacagct tccggcaact gatgcctcca ctggccactc ctcctccgt 60
ccacctgtca cttcgggtag ctgggagggc agttaaaaaa aatggaacct ttttcctswg 120
acactttcgt ggcattacct ccagcaacag tcgataacag gattatTTTT ggaaaaaatt 180
cagatagact ctatgatgaa gtacaagagg tggtttattt tctgctgta gttcatgata 240
acctgggaga acgtcttaag tgtacatata tagaaattga tcaagtccct gaaacatatg 300
ctgttgkcct gagkcgccca gctggttgtg gggggcagaa atgggagcca atgagcatgg 360
agtttgcatg ggggaatgaag ctgtatgggg aagagaagaa gtttgtgaat gaagaagcac 420
tattagggat nggacctgtg tcagacttng gccttngaaa gagctgatac agytgaaaaa 480
gccctcaatg tcattgtttg gacttactag aaaaatatgg ccagggtgga aattgcacag 540
agggtagaat ggtattttagc tatcacaaca gtttcctgat agctgatagg aatgaagcct 600
ggattctgga gactgcaggg aagtactggg cagcagaaaa agtacaagag ggagttcgta 660
atattttctaa tcaactttcc ataacaacca agattgcccg ggaacacca gacatgagaa 720
actatgctaa gcggaaaggt tgggtgggatg gtaaaaagga gtttgatttt gctgcagcat 780
attcctatct tgacacagcc aagatgatga cttcatcagg cagatactgt gagggctaca 840
agcttctaaa taagcacaaa ggaaatataa cttttgaaac aatgatggaa attcttcgag 900
ataaaccaag tggcattaat atggagggag aattcctgac cactgcaagc atggtttcta 960
ttttacctca agactccagc cttccttgca ttcacttctt tacagggact cctgatcctg 1020
agagatctgt ttttaagcct ttcataattg tgccacatat ttcacaacta ttggatacca 1080
gttcaccaac atttgaactt gaagatctag ttaaaaagaa atcacatttt aagcctgaca 1140
gaagacaccc actctaccaaa aaacatcaac aggcatgtga agtagtaaat aataatgagg 1200
aaaaagccaa aataatgttg gacaacatga ggaaactgga gaaagaacta ttcagagaga 1260
tggaatcaat ctttcaaaaac aagcatcttg atgtggagaa aattgttaat ctctttcctc 1320
agtgtacaaa agatgaaatt caaatttatc agtcaaattt atcagtcaaa gttagtctct 1380
agtgatcata tggtcagcta atattagttc ttagtgatca gtggtcagta atcttcaaag 1440
tcagaatcta tcaccttggg aaattatata aacctaaact gagcagatct gattattctt 1500
ggatagtatt caagtgggat cttgactatt aaactacgta tagtggtgct gaaatagaaa 1560
gaaaacagca ttggaattgg attcatgtat cgtgggatac aggtgttatt tcagggtgatg 1620
tacttgcatg attttcttta gccatagtaa ctttttgtca caataactaa gtattcaatt 1680

```

473

```
atatataaag agtgaaacat taaaatgacg catggattta tatttattat aattatgtag 1740
taccctcaaa tcattttgtc agttacatca agaaagcaga tttttcttta gtcatgaaaa 1800
atatctcaag tggtaagttg tttgtgcttt aggcaaacat taaccagctc taacaagaaa 1860
aatgtctaga ttacacatt gtcaatacag tatattagtt ctgcaaatgc acttttgttt 1920
aactcaaaca tgctctttgt caagacttgg ctaaccagtg agcttgtagc tctgattatc 1980
tagcattttt agggtcattc tccttaatag gcttttatgt taataagata tattttttaga 2040
agagcttggt tgggagatta gagaataaga taaaagaacc aaaaccttag gatatactgt 2100
ttctgggtct gaaatctctc tcattgttta cttctgttca ctcagtgaac acagaaacaa 2160
gaatgaggta gtggcaatga aatagaatta ttagtatatt atgaacatta taacattttg 2220
aacactataa tgcattatat attatgaact tttatgaact ttatacatga gtaatagctt 2280
cctaaagttt ataaaacatt gttaggttata cataaagatt accaagtaag actcaaaatt 2340
gcaaataata acaaaagaaa aatccaactg aaaataacac taagtatttt tgagtttcta 2400
gaatgtccat tttggtattt ggttacatta tcataatttac tagtcactat cagcacaatt 2460
aggttaataa agaagtgggt catttatatt aaagagtgtc caggaagtta tgtgttcaaa 2520
gttctctcat aaataccatc gtctgcctga tactgctctt gtctaataga ggggtgacat 2580
tacaaaagaa aagatgtctg actcaagaac tcagttgatt ctgtttgcct taagtttggk 2640
tcagtgatag gctgtcttct aacctctata ctctcttctt ctcttttaat agatgaggra 2700
actaagggca aacagttcgt tacacttacg gga 2733
```

<210> 696

<211> 575

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (468)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (512)

<223> n equals a,t,g, or c

<220>

<221> misc feature

474

<222> (542)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (550)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (556)
<223> n equals a,t,g, or c

<400> 696
tccctatagg gaaagctggn acgcntgcan gtaccgggtcc ggaattcccg ggtcgaccca 60
cgcgctccgct ctgaaaaatga tctacagcac gatccagaag aaatgaactt tgtgggaaaa 120
gaacaaaagg ccacccaaaag aggccaagct gtgatggaaa agaaaaccaa caggatgaga 180
tgaaagggga gattaacaag cwawataaga attgcaagga aatgaaatgc taggcgactt 240
acaatccttc ttggggggcag tgagagcggg gatgctggat gtgaaatcag tgacatggaa 300
ggcaaaactgg aaaccctgga tgaaagtgtg tcatgcacag aataccaaaa aagataaatc 360
cagaagacac agagccagtg ttggttttcc tgaggaagag acagcttgaa aaaagggtctg 420
tgtttgcaga ccaataacctg aaagtaaaty caaaggaaac agatccgnca ctagacacat 480
ggtggcaaaa atgtttaata accaagtgtc angggtagaa aaagaatggc cagatagaat 540
gngcgccctn ccctgncccc tctatcccaa gaagg 575

<210> 697
<211> 948
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (930)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (936)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (945)
<223> n equals a,t,g, or c

<220>

475

<221> misc feature

<222> (948)

<223> n equals a,t,g, or c

<400> 697

```

cacgcgtncg gtctcagaaa aaaagaaaat tcaaggccag ttaagacaaa atgctatgac 60
tttgaaattc acagaaagaa ataacagttt agattaggctc ttcagggtatt caggatagag 120
ataatctcct gaaaaacctg aatttcagag attcttagac tggctgccaa aggatgaagc 180
tagtgaagga gaaaaagctt aaattccatc ttgagctctt ggattgtgat aatacaatga 240
tttcattaac ttttcatttc tgtataacctg ttcatttggga atttaatgct tgacttcttt 300
gttcattttt gatctaaact tctcttttct tcttcccca ttcacatcta ttagaagact 360
gcatcaccat tcttttggcc ccttactctt gttgtccttt ccttttctt tcagtttttt 420
taatcgcatg tctagtatat taagtctcca tagccctcct gatgcagtag acagtgcctat 480
gctgtggata taataccaac cagaaattgg catttataaa cctgttaaga gactttaagc 540
atgcttcaag aggcagttga cccactggaa tttctataag gctgggtacc ttcccagagt 600
tacagaatct trgggtgccg ctctagtctg tgagggagga actcccagca tccccattgc 660
ccacaaatgg aatcctcact gtatccacta ggagattaga aattaagggt tcttcactac 720
ttctatggta gggttgtctg aaattccctt tcaggctgtg ggtactggc ttgggttcta 780
gtcataaggg gtctcttata aggagcaggc ggaggggagt acactttcat gtgatttaat 840
tttgatcctg cctctccag ctgctccttc aaaagataca tcaaagata gaaactctgg 900
gctgggcaca gtggctacac actttgggan gccaanccgg ggggnttn 948

```

<210> 698

<211> 1494

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1494)

<223> n equals a,t,g, or c

<400> 698

```

agatgggttg agcccaagag ttcgaggctg cagtaagcta tgatcgcatc actgcactcc 60
agcttgagca aaagagagac cctgtctcta aaaaaaaaaa aaaaaaaaaa aaaagaaaga 120
aaactggagt gctagaacta ttttaatat gaatatgttt tttctagtaa tgtttttcac 180
ccttcttaca gatgttcgtg agcagcagtg gattgccacc aagtccagtt cccagtccaa 240
gacgattttc aagcaggaga agtcagagtc cagtcaagtg cattagaccc agtgttcttg 300
gtcctcttaa aagaaaaggt gaaatggaga cagaaaagtc gcccaagaga ctcttccaag 360
gcactacca taatgttatct ccagatgccg cgcaactgtc tgatctcagt tcatgkctag 420
atatttttga tggcagtakt agcagcagtg gcttatcctc agacccgctg gctaaaggca 480
gcgctaccgc agagtctcca gtagcatgct ccaattcatg ctcttcgttc atcttgatgg 540
mtgatctctc acccaagtga cttaaccatt tctgattcaa cgttttaact gctgtttcct 600
acataaaatg tttagtgggg aacgcagaga actttgatcc ataatgagga ttaaagtttt 660
acagatttca cacattctga tgctattatt actctttggc atctctcttc tccaaagttc 720
aattttgtga gcctagtgac ctactagta tctggttttg ctgatctcat tttggattta 780
gtgattaaat ctcaaagctt gatttttgat tgcttagagg aatctttttt cttagtgctt 840
caaaaaacac ctattttgag tctatacatt taagaaaggc actgatgtgt attgccttta 900
atggtccttt tccgcagcag tgatatgaca gatttgatca gaaattctct tgcttgagag 960
attttttttt gtcctctgtt gactacatag tttcaaactc ctctttatct catgatgata 1020
tataaattgc ttttaattat attaaatttt tatttttctg catcagcttc aagtacatta 1080

```

476

```

ttttgtttcc ctttcctggt tgagccgctt atgccatttc tcacagaggg gaagaaatac 1140
gtagtgtgctt tcattactct tattgcttct ttgctgttgg ggtgtgtgaa gtgagcattg 1200
attttagtgc tgagaatgta aacggactta caggatgctt ggattagtca tcacagggtc 1260
ttatgacttt gctaccacag ttgatataatt tctcctcaaa cctgttgccc taaggaatat 1320
ataaaatatt gttgatattt ctaggtggtg ttatcaagga gaagaaattc ctgccttgac 1380
cagatgtgtg gagcatctac aaatgaatga atagttattt acacacaaac cactgtgtac 1440
aaaagcgtcc atggagctgt cagtgtctcg agtgggtatta tgaggcctca ggtn 1494

```

<210> 699

<211> 303

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (293)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (295)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (300)

<223> n equals a,t,g, or c

<400> 699

```

gaaaggggttc aagtaaatgc aaatgatgtt ttggcaacct tttctcaaaa gatwctgcat 60
tggaatacag actgtaatat taaactacta tgtgtatatatt gtttctacas ttgtatacac 120
cgtartgtct tttacaggta tataagggtca atggccctar tctaattcag atttaaacta 180
gtgcttgccct tgtaactctg caagtgatca ataactctctt aatactgaaa gtcmcacaaaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaagggcggc cgntntaaan 300
gag 303

```

<210> 700

<211> 547

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (540)

<223> n equals a,t,g, or c

<400> 700

```

gcaccaattc tggaatgagc ccaaactgag acgcagggga cctgagttct aggcctggct 60
ctgccgtggc ttgctgacct tggagaattg gagaagcttg tgccctgctg gaaagtggga 120
tggcagtagc cgcttcatct agtagtcggg gagatcaaga gaggtatggg acctgaagag 180
gatggcagac tgtgcagtcg ggtgcacacc ggtctccagg ttgttttcac cctcctgtct 240

```

477

```

cctcccagga gctaacgtat aaagctgagg ctccggccagg gactgtgata taccacatc 300
cccggaaacta ggtgatcgcg gtgcaggaac caggtgtgcc ttcgcgggat ccatgccttg 360
aggcccagga acgccccgcc gccagcatgc cgtgggacgc gcggcggcct gggggtggcg 420
cggacggcgg gcccgaggcc tcgggcgcgg cgcgctcgcg agcgcagaag cagtgccgca 480
agtcgtcggt cgctttctac caggcgggtgc gcgacctgct acccgtgtgg ctgcttggan 540
gatatgc 547

```

<210> 701

<211> 2401

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (583)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2342)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2354)

<223> n equals a,t,g, or c

<400> 701

```

ctacatccag tgacctatca gggatgcttg ttatattata caagctgctt tgttatcata 60
tcagcattct cttcagccag ctccaaggca gatagtcacc cctctctctg tgtggttggg 120
gtgggagcag gccccgtgga gggagcgggtg ctgaggacat gtccctggcg ttccgatgct 180
gtcccatcga ggacccccctg gcctcaggag gaaggagcag gcgatgcagc cccttagtgt 240
ggtcgtgttg actgacaggt ggctgatgcc tgagcgcgcc ctcttcttsc rtcttaggag 300
acaccgtggt gaagaggaag cctgcttctc tgatggcccc tctgaagcgg aaggaggagt 360
tctccttggt caaggtgtct ratgatgaat ataaagtaac aatctcgctt casctgctct 420
tggccacca gcgcttctctg tcccgaraag tggatgtatt cagcccgtcg cgcattctctg 480
agaaggtcct gctgcacctg ttgaagcacc ccagtgtcaa ccaggaagtg aggtttgacg 540
agagcaaccg gctggccaca caccactacc tgtaccagcg cancagccgg tggattactt 600
cattctcacc ctgcagggca gggttgaagt ggagatcggg aaagaggggtc tgaagtttga 660
gaatggggcc ttacagtact atggagtgtc ggccttaact gtgccatect cggttcacca 720
gtccccgggtg tctcgtctcc agcccatecg ccatgacctg cagcccagacc caggtgacgg 780
cacgcattca tctgcgtatt gtcccgaacta caccgtgagg cgctctctga tctgcagctc 840
atcaaggtta cgcgactgca gtacctcaat gcactcctgg ctacccegagc ccagaacctg 900
ccacagtccc ctgagaacac cgacctgcag ttattccagg cagccagacc aggtcctctg 960
gtgagaagac caccacagcg gcagggtcca gccacagcag gcccggcgct ccggtggaag 1020
gcagccctgg gcggaacca ggcgttttaa cggstcacta ggcagcccca gatctgggga 1080
acaratgagc acgtggggag ctggagttag ctgagcagaa gttttgtgcc cgcctgcccc 1140
catccccctc aggccacgtt ttagatggcc cttgtagtgt cgggtcctgg gtgtcctcag 1200
aactagacat caatgcctgg atccttcage cgccctgcc ctcctttagg agacaggagt 1260
caccagggca cagcctccag gcccgctca ggaaggaatg aaaggaatgc catcatctct 1320
agttcccagg gcccagcctt ccccttctcc cccggggcag ggacagtgcg gcataattcag 1380

```

478

```

attcagacct ctttgggctg agccaccttg tgagtgcagt tactgccttt gtgtggccgt 1440
gacctctatt tgtttgcttt taatttgcca acctatcget gctggcagca ctttttgagc 1500
aagccgagag caccattttt ggctgggggt tcagatcgat ggccttgtec atgttgccct 1560
ttctggcttc cctgatggtg tcatgtttca gcgcacgcgc cccagccttt cccatgtgcc 1620
aaaccagaag ctccactgcc cgtaggctgt ccctgtagcc ctgctccctc cctggagggt 1680
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ctgggaggaa gggatcgta tgctgcacac ctccccacag cctccctgca ggtgctgtgt 1860
gagtagctgc ctggtgcacc tgctccacac ctccccacag cctccctgca ggtgctgtgt 1920
ggccgtgatg tgcagagagc agtgaggag gggtcatgaa ccagggtgat cctctttaa 1980
aaaaaaaaag tttttgttat atctctaraa catttcaagt cttttccttt ytttctgttc 2040
ctagctatgg gggttttagag aagtgggaac aggaaggcat ttgtcttttt cttctagttt 2100
actacatttt ccttccgtag ttcttcagct gtgtggaaac gggcatcaca aggacatagg 2160
atcatagatt gggtagggag ggaggaggat ttctggaact tttctcaaag gaatttggac 2220
ccttataaat gggactgaag gtcaaaacaa cagtgatatc cttgcttaga aattgtcctc 2280
aaggaataaa ctctgagagc aagcccgggt tggaaacaga tgctttaa aa tcctctctcc 2340
anaacagtgg tttnttggtt gtttatgtga gatggagtct cactctgtca cccaagctgg 2400
a 2401

```

<210> 702

<211> 716

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (654)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (689)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (702)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (712)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (716)

<223> n equals a,t,g, or c

<400> 702

gcttggccta tgaaaagatt tagacaacca gacgataata gtgggaaatt tcaacactcc 60

479

```

actgacagtg ttagacagat cattgaggca gaaaactaac aaagaaatgc tggacttaaa 120
ctcagcactt aaccagttga aactaataga caaatacaga acactccacc caaaaggaat 180
gcttatacat tggttggtgga aatgtaaatt agttcaggca ctgaggaaag cagtttggag 240
atcttctcaa taatttaaaa cagagctacc attccaccta gcaatcccat tattgattat 300
atatccaaag gaaactagat cattatacca aaatgcactc atatgttcat caccatgcaa 360
ttcacaaatag caaagacatg gaatcaagcg aggtgcccac caatgatgga ttggatgaag 420
aaaacatata tgctatggaa tactacacag ccctaaaaaa agaatgaaat caagttgttt 480
gcagcaacat aaatagagct gaaggccata gtcctaagta aattaatgca ggaacagaaa 540
accaaatact acatgttctc acttacaagt gggaactaaa cattgagcac acatgaacat 600
aaacatggga atgatttgac actgagcact actttgaggg gaagagagag ggangttgac 660
atgggttgaa aaaacctacc tattggggna cctatgtttg cntacctggg tncaan 716

```

<210> 703

<211> 411

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (331)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (338)

<223> n equals a,t,g, or c

<400> 703

```

gatcctaaat gcttgggacc aaagtatttt ggattttttc agatttttga atatttgcat 60
tatactttta tgagcatttc ctttgagcat catgttggtg ttctaaaagc ttcagatttt 120
ggagcatttc acatttttga ttttcagatt agggatgctc agcccgtata gggaaacttt 180
agaacattat agaaatgaac aaaaagaaaag caaacttgaa tgcagccata taggacatat 240
acttttgggtg aagtttagagt aacagtggat ttacttttcc cttgaaatga caaacaaaaa 300
aaaaaataca gaaatatgaa gcagtgggtt ncaggcgncga gagtcaatga tgaaaaacaa 360
tggcctgagc ccaatgttgg ctccagcttg agaatttcta ggttgcctat a 411

```

<210> 704

<211> 725

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (565)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (698)

<223> n equals a,t,g, or c

480

<400> 704

```

ggacawtacc aggcaaatat tgcagaactg actcatgcaa acaaccgagt ggatcaaaat 60
gaagcagaag taaagaaact aagattacga gtggaagaac taaagcaggg actcaatcaa 120
aaagaagatg agcttgatga ttccctgaat cagatccgta agctccagag gtctctggat 180
gaagagaaaag aaagaaatga aaacttagag actgaactca ggcacttgca aaactggtaa 240
ttttttcaca aaatatgctg aattaaagat tagggcctta aagacatttc catatccttt 300
tcttaaatat cagtaaaatt gtttttatta actagaaata ttaatgaaaa aaacgtagac 360
aatacacaaa ttaatgggct tcttcacttc ttctaatttt tgcctaacag atactgcata 420
ttctcaaaaa gacaatttaa atgtcattta aaaacaactt taattctaag atgtgtaaat 480
attttgaaag tcaaaaaggg ctttcagaat actttttaca taaaatctga agagttataa 540
tatcggtgaag aaaaagtagt tgaanaccat acaagacgct gggtcattaa taagaaaacc 600
attgacttta gtataaagta ctggtttgtt taaagattgg taaactttta tgtacgtgtt 660
gtctatgtgg tggggatggc aggttgtatt aacaaaantg aatccttcta gaggtgtacc 720
attac 725

```

<210> 705

<211> 332

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (302)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (306)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (328)

<223> n equals a,t,g, or c

<400> 705

```

gggggccaca cccaggtggg ggcccatggg gtggagacag agaggtggct ttaaaaaaca 60
cagctgtact aattcttcac tccatgggcc cacaccaggg tgggggagga ggaagccact 120
gcatctgttg gctcagggcc ccagcctgtg cgagcagggc gcctgggctg ttgtgtctcc 180
tgtctgtgcc gatctctatt aaaggactcc ctcttgggtg gcaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
angggnggcc gttttaaagg atccaagntt ac 332

```

<210> 706

<211> 726

<212> DNA

<213> Homo sapiens

<400> 706

```

ggcagaggtg actgtcaaag cttgaccctt gctttgattc cctttgttga gacaggttct 60
tataggacct ggattctcac cacatcctct gttctgttta gggaacacaa aggtgaagctc 120

```

481

```

agctctgtgt ccaggagtag cttatagtag tctcccttaa ctgtgtctgt ttcaacttga 180
tccaagatca ggattagtag aagcttgtaa aaaaaaaaaa aaaagtttwt tttttacaaa 240
atagaccaga tgcactttga agttaaagtg catgcttaac catctgcaat tcctaagggt 300
gagctcaatg catcacatgt agtagatgtt caagaaatgt ttgttaaagt ggcagttgta 360
aacagagaca gtgccgtgtt tatttcgttt tccagaaagg cacctgactc cttgctttgc 420
acataacagg tgctcaagaa atgttgaaga aaaaagcaaa ttgctttgaa tgcagtgtat 480
cctaaaacca gatttccagg ttgccccagt actctgtaca ggccctccatt ttggctgtta 540
acacagtgtg tcttttgtaa cattaaaatg ggtccacgtt tgcattctct ccgaaattat 600
aaactcctgg gagtgcaggg atgtgtctca tacattcttc cttgactttt ccacagcata 660
ccttagcaca gagttggata tgtagtagat gttcaatgga gaattactga attttcttaa 720
aaaaaa 726

```

<210> 707

<211> 553

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (325)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (370)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (520)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (529)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (531)

<223> n equals a,t,g, or c

<400> 707

```

gggttggggc aatgggtagc gcatccagtc agctctgggt aaggggtgaa ggagtcagggt 60
gttaccacac tggtggcagg ggccaccttg aagctgtgtt ctgtgccatg gaagaaggaa 120
gaggaggagg aagctaagct ggaagggaag gctcctggag tcagtagttg gaatctcaga 180
tgggaagaaa ccttaaaagt catctgggtc agtatcttcc aaagcatgtt ccatgaactt 240
gttttccaga aatgggtttc tgggtctggt agtgggagyt csatgagagt ggcagttgtc 300
tattttgttc accgatgtat cttangtgac taaaacaatg gttgtcacat ggctggccct 360
tcatatttgn ttccagatgg aagactctct ttctagtggg ggaacattag ttttgcactg 420
tggttgggaca acctgatgta gtgaaaacaa gcctggggcaa tgaaatcaac agattggaat 480

```

482

tcaattccta attgggtcat tggatgactt tgtgaccttn ggcaaaatna nttacctttt 540
tgaatttgaa taa 553

<210> 708
<211> 255
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (243)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (251)
<223> n equals a,t,g, or c

<400> 708
ggctgcaggc agcaacgcaa gtcaggctga acattcagtc tccagagaca gctgtgtgga 60
gcaaatcaga gttcatgccc aagtccccag gttggaatgg ctgtgccaaa atccattcaa 120
agggttttct ttttcattac taggtcagaa cattttgagt caccttgga gattcaggat 180
ggggagagca aatttgaaca aaagggttttt cttatatcct gagattgagg ggtaggggggt 240
gtncaacctg natag 255

<210> 709
<211> 1075
<212> DNA
<213> Homo sapiens

<400> 709
ggccggcctc caggctgaag aaggaccgcg cccggccttg acccgggccc cgcccccca 60
gccggggcac cgagcccccg ccctagctgc tcgcccctac tcgccggcac tcgcccggct 120
cgcccgcctt cgcacccagt tcacgcgcca cagctatgtg tccccgagcc gcgcggggcg 180
ccgcgacgct actcctcgcc ctgggcgcgg tgctgtggcc tcgggctggc gcctgggagc 240
ttacgatttt gcacaccaac gacgtgcaca gccggctgga gcagaccagc gaggactcca 300
gcaagtgcgt caacgccagc cgctgcatgg gtggcgctggc tcggctcttc accaagggtc 360
agcagatccg ccgcgcgcaa cccaacgtgc tgctgtctgga cgccggcgac cagtaccagg 420
gcactatctg gttcacctg tacaagggcg ccgagggtggc gcacttcatg aacgccctgc 480
gctacgatgc catggcactg ggaaatcatg aatttgataa tgggtgtgga ggactgatcg 540
agccactcct caaagaggcc aaatttccaa ttctgagtg aaacattaaa gcaaaggggc 600
cactagcatc tcaaatatca ggactttatt tgccatataa agttcttcct gytgggtgatg 660
aarttgtggg aatcgttgga tacacttyca aagaaacccc ttttctctca aatccaggga 720
caaatttagt gtttgaagat gaaatcactg cattacaacc tgaagtagat aagttaaaaa 780
ctctaaatgt gaacaaaatt attgcactgg gacattcggg ttttgaaatg gataaactca 840
tcgctcagaa agtgaggggt gtggacgtcg tgggtgggagg acactccaac acatttcttt 900
acacaggtaa ttgtttcaaa aggattgcat gggccaggat gtccagataa gcactgtgtc 960
tcttttgcc ttgtaactgt tattactctt tttactgcta tttaatatgt aatgtatatt 1020
atatgatcta taatatatat gtaatatata ttaaattggga acatgtgcaa atctt 1075

<210> 710

483

<211> 753
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (706)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (741)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (746)
 <223> n equals a,t,g, or c

<400> 710
 gaattcggca cgagctcgtg ccgaattcgg cagacgatac caggtgctgc agaagggatt 60
 ccatgagggtg cgcaaaggcc ctacttccgc ttccaccttg gagacggcga ctctctgcgt 120
 actgattgga acatccgcga aatgatacgc ctctctgcaa tgctattggt cgaaatgcat 180
 gtcaatctcc cagcgtcttt atccgtgttc cttgactctg ggcaacttaa aagccctaata 240
 acttttactt tcgccacaca aagaggttct tcttagtgga gggagagcag atgtagggca 300
 tcctaccgag aattttccgga accacgtgcg agatgatgcc agtcatgaac gtctccgcgc 360
 ttcttttcgc tttggaaata tccttaagta gaaaagaaat tttctgagct ttgcctaaaa 420
 ctagaatctg tgttgagggt tttcaaaatt aagtaacgcc agagacatac tgtgacgtga 480
 ggaaacgctc ttaaatgaaa ttttaagatc tatttgagaa acatgtacta aaaatgtact 540
 gacctcctat taatgccagg cgctatgctg aattctgggc cttcacattg tccttccatt 600
 attagaactg aagcccagat tatttgaaac aaaaaataaa cttcaataat ttattaaaaa 660
 aaaaaaaaaa aaamctcgag ggggggcccg gtacccaatt cgcccnaaag ggaggcggat 720
 taaaattccc tgggccggcg ntttanaaag gcg 753

<210> 711
 <211> 779
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (721)
 <223> n equals a,t,g, or c

<400> 711
 aaattaaccc tcactaaagg gaacaaaagc tgggagctcc accgcggtga cgaccgctct 60
 agaactagtg gatcccccg gctgcaggaa ttcggcacga ggaacagctc aactgggtg 120
 gcactgctaa gcagggtcgg aggggagtc gagacccccg gatggagggg tgtgggtggac 180
 ctcagttttg aggccgagag tcctctggcg ccmcccacag agctcctgga gagactgccc 240
 agctatgact ggcttcttca agggggcaga ggacagatat tcttcccacc tttggaggcc 300
 ccaggagggc cccaggagca aaggtcctgg ccctcgttcc tggaacacag gagatgccct 360

484

```

ccccagttgg actgctgagg gctttaccac taccgtggcc tcagtttctc gcctgcacgt 420
tgaggagggt ggctggcccc cgtragtcca caggcccttc ccagaagccc ccgcctctct 480
gttcgggtccc ctgcagagtc cctgcgaatg acggaggagg tggcccgggg aagccctcct 540
cagctttgtg gactstaagt gcctgctaca gcgaakktgg actggagacc tcgtcatcca 600
ggagctgaag cggcagaccc tctgcaggta ccgtctggag accttttagtg aatccaggat 660
aagcgaagtg gacatttcaa ccctttacta aaccactctg tggaatgggc cgcaaagagg 720
ngcctcccc aggggtcttg gacatcaagg tttcaaggtc cttccgatgt ttttcagga 779

```

<210> 712

<211> 570

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (296)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (298)

<223> n equals a,t,g, or c

<400> 712

```

ccctcactaa gggaacaaaa gctggagctc caccgcgggtg gcggccgctc tagaactagt 60
ggatcccccg ggctgcagga attcggcacg aggagccact gtgcccggcc tgccttggtt 120
attttcataa gatttctaga attaggttca ctgagttaag tgatataaac atttttgagg 180
cttttgctac atatttttag attgctctac aggagtggtc tagtttatac acccctacca 240
ggtcgccatg tatgtttcta cacaatagcc ctgctcgcaa cagatagtat attttncnct 300
gttgcccagg ctggagtgca gtggcgcaat ctttcttggc tcaactgcagc ttgaaatctc 360
aggctcacaa gtgatccctc cgctcagcc tcccaagtaa ctgggactgc aggcatgcac 420
caccatgcct ggctaatttt tttttttttt tgtagagatg ggtttttgag accagcctgg 480
gcaacatggc aaaactccgt ctttactaat aataccaaaa ttagctggga tagtggtatg 540
tgcctgtaaa tcccagctac ttgggaggct 570

```

<210> 713

<211> 877

<212> DNA

<213> Homo sapiens

<400> 713

```

gccttttact gtagaccctc tccagagaaa ggagctcggg tcttccctga gccaagggtgc 60
cagggtccca gaactccctt cactgcagac cctctccaga gactggggag agggctctgg 120
agaaacctgg tcttgcttac tgttctccct ttggggccctc cttcccaaac gcaaacaatc 180
caggatccac tcagcgtcag gcccaatgga aatagtgaag cagtgatattt ccctcccctg 240
cctctccata gcctgggtctt ttgccctctc ctttgctctt ctcttcccc atagccacct 300
caaatacctg cagcctgata tcttcattcc ttcattccaga ccttttctct cctagtggta 360
ttgcaaactg aaagtggaca aagacttaag gtaaacctgc tcctcatggg ggaatgcttc 420
caaatgctgg aaggaggact ttagggcaga gtactactaa gaggcttggt cttatagatc 480
agtgggcctg aaagaagtgt ctctagggtc tggttgtgtg ctgtacgarg tgtaggtagt 540
aataaacttc ttgtcagcca cagtgaagcc ccaagctagc cgggataggg gactgacctt 600

```

485

```

gtacaggcag catggagaaa ctaagacaga gtgtcctgcc caagtgatgg cactggggag 660
cagtcactca ggtttatttc caccagggcc caagaaaaaa agaaatgagg caacctaaaa 720
ttccatcaag atagatacca atatccaagg tgcttggtct tagcgggtgt ggaccacgt 780
taaggctctt ggtgggaagg tgggaggtgt tttcagcatg agatagggtt caggctgtga 840
atcagagtct agagcctaag ataaaaaaaa atgtgcc 877

```

<210> 714

<211> 656

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (496)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (558)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (592)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (620)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (644)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (654)

<223> n equals a,t,g, or c

<400> 714

```

gtgttgtgcc tgttaaaaat tcagagccct gaactccatc ctggtataaa gcaaaaataa 60
aattttaatc cccttgacca tccaatggc cccttctctt ggcaagggca ttccaaagtt 120
aaatggaaaa actagtttta gaccatgatg ggaagggggt gttggaactc cttccttttg 180
gaattactga tagaacagac tttttaagtc tgataagaaa catttacaat ctattctcaa 240
agtctgctac caggaggctt cacctgcatg ataaaacctt ggtctccaca actccttatac 300
ttaaccacaga cagtcctaag tttttagaca ataacctaac tgkttcaatc catgccaatc 360
aataagtctt taaatctgcc tatgacttgg aggcccttcc ttycaagtag ttgkctgcc 420
tttctggacc aaacgaatgt acatcctatg tgtatctgat agatgtctca tgtctcctaa 480
aatctgtaaa actaanctgt cccaaccac tttgggcaca tgttctarga ctyctgaagg 540

```

486

tgtgtacaag gccgtggnca cttatatattgg cttaaaataa tctcttcaaa tntttaaaaa 600
 aaaaaaaaaa agggcggcgn tttaaaggat ccaacttacg tacnccctgca ttcnaa 656

<210> 715

<211> 1530

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<400> 715

ncctcactaa nggaacaaaag ctggngctcc accgcgggtgg cggccgctct agaactagtg 60
 gatcccccg gctgcaggaa ttccggcamga cgcgggtccgg gtcgccccta gctgtttcct 120
 actcacccaa agccccgcac ccgccttttc tctctctcct ctggcaggat gaggcgtgca 180
 ggcctgggtg aaggagtacc tcctggcaac tatgggaact atggctatgc taatagtggg 240
 tatagtgcct gtgaagaaga aaatgagagg ctactgaaa gtctgagaag caaagtaact 300
 gctataaaat ctctttccat tgaaataggc catgaagtta aaaccagaa taaattatta 360
 gctgaaatgg attcacaatt tgattccaca actggatttc taggtaaaac tatgggcaaa 420
 ctgaagattt tatccagagg gagccaaaca aagctgctgt gctatatgat gctgttttct 480
 ttatttgtct tttttatcat ttattggatt attaaactga ggtgatgcat gtaattgtga 540
 atttggaatt tgttccaact taatggcttg cagtaccact ttgataaaaa tcagcatcaa 600
 aacattccta gtgttcaaat actgtggcat ttccattga aaattgctga attttgctta 660
 ttttataaat cacattagtt aatacagtggt tctttgaata ctgtttctta atgactcatt 720
 ttagccccta ttttcagggg tagtgagagg gtgtggctcc actaatttcc agtttggttt 780
 tctattgttt gccaaactgtc agattaaata gcattataat attttggtgt aatcataaat 840
 gcaggtttat gtcccatgta aggaaactta gtgggagagt aacagaatgc ctgggagagcc 900
 tgactctgag ctcttgaagt agtcagccag ttgtgtgtaa aatggtaatt gaattttcct 960
 aactgcatca actgtaatga tatactccct tctcctcctt tatttagtta aaattgtagg 1020
 ctgatttctt ttacctaca atcttcctaa taatttttga tgataatgac ccctcatttc 1080
 tttctgcca aagacctcat tctttaaata aaacttgta ttttggcata tttctggtag 1140
 ggccattgac acatgtgtat cagtatagtt attatttcat attaaactta tgaattctct 1200
 tgacttggtt tataatagtt ttatgatttt tactacatag gtagcacatt tatcatttgt 1260
 gacagaataa tgtgaagtta agtaattact gaactttaaa tggaaatagt atgcaagaaa 1320
 ctcaggcatt gaacttgaag ataagagtat tattgcttta atccagtgt tttgtttatg 1380
 gaaagaaaaa cacaaggca gactgttgag taaaaaatat taaatattgt taaatattct 1440
 gtattttgga atttatccat ttataggctt caaaagtaaa tttttaaata aaatatatta 1500
 gtcgactgtg aaaaaaaaaa aaaaaaaaaa 1530

487

<210> 716
 <211> 742
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (709)
 <223> n equals a,t,g, or c

<400> 716
 tggctccaaa aggggaattgg gccttaagcc aagaatccgc cagaggggggt aatcaactct 60
 gttacttctc cccctgccag tcagaccggc cttcgggtgag aagggtgcgtc tagaactgag 120
 gcgtgcggcc aatccgactg ttccgtttcg ctgcctcgtg ctacccctac agcctcgaac 180
 actgacattt aaaagggttaa cagctgggag gcaggggaagg ggcagccgca cactttcggg 240
 gtgcctcgcg gtcccgtggc cggtcggggc ctcttggtc acgttccagc ttgcggagct 300
 ttgggacaca tctttcctag tcagttgcgc tcgttcctat ggcaaaagag aacttcagct 360
 tcggttttcc agctcccaaa cagttaagt acttcctgca aacgctacag tcccagcaac 420
 cagccttcca atcaaaaagta agttggttga tgtcactggc attggctcgg ccaatcaca 480
 gggcgttccg aaagcaagcg ctcgacactt gtaaacgcga agagctgtag tgaaactgga 540
 cacatctttg tattttgtgt tgctggtagt aaatttgagt tatggatgag aggacagggg 600
 tgatgaataa atgcagtgtg aatctataat taaaaaaacc ccattatgtc aggataagtc 660
 caagaataaa cacaatgag taagaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 720
 aatgaaaaaa aaaaaaaaaa ag 742

<210> 717
 <211> 820
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (23)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (41)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (802)
 <223> n equals a,t,g, or c

<400> 717
 ctcactaagg gaacaaagct ggnctccac cgcgggtggcg nccgctctag aactagtgga 60
 tcccccgggc tgcaggaatt cggcacgagc ccaatacagg catgaaccac tgcacccacc 120
 tacttagata tttcatgtgc tatagacatt agagagattt ttcatttttc catgacattt 180
 ttctctctctg caaatggctt agctacttgt gtttttccct tttggggcaa gacagactca 240
 ttaaatattc tgtacatttt ttctttatca aggagatata tcagtgttgt ctcatagaac 300

488

```
tgccctggatt ccatttatgt tttttctgat tccatcctgt gtcccccttca tccttgactc 360
cttttggtatt tcaactgaatt tcaaacatctt gtcagagaag aaaaaagtga ggactcagga 420
aaaataaata aataaaaagaa cagccttttc ccttagtatt aacagaaatg tttctgtgtc 480
attaaccatc tttaatacaat gtgacatggt gctccttggc tgaaattctt caacttggaa 540
atgacacaga cccacagaag gtgttcaaac acaacctact ctgcaaacct tggtaaagga 600
accagtcagc tggccagatt tcctcactac ctgccatgca tacatgctgc gcatgttttc 660
ttcattcgta tgtagtaaaa gttttgggta ttatatattt aacatgtgga agaaaacaag 720
acatgaaaaag agtggtgaca aatcaagaat aaacactggt tgtagtcagt tttgtttggt 780
gaaaaaaaaa aaaaaaaaaa anctcggggg gggcccccga 820
```

<210> 718

<211> 463

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (318)

<223> n equals a,t,g, or c

<400> 718

```
gcatacttaa aaagtacaaa agtccagttc tccaggtaca tgggcaattg tatttgttta 60
tagtttagat tcataacctt tactgaatgt cagaaacaca aaaacttatr raaataaaaat 120
atatttgctc ttgagatata tataatttat tttaagtcaa taatacattt ttagttaaaag 180
gtgtatttat gatcagttta ttgtacttgt gctataattt tctttattat taaataaaaat 240
tttgagacac ttttaaaaata ataaaaacca aaaagtggta ttttaaaactc agtttctaaa 300
tgatgattga ctaaaagtngt gtgtgtgtat gcagacatac gtaaatacac acatacatat 360
aggctatgat gatgacaact atttacttca aattagatgc cttctgtatg tatattgacc 420
agaatacatt gctcaagtga tttttaaaata tttgtataat ttt 463
```

<210> 719

<211> 540

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (153)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (154)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (155)

<223> n equals a,t,g, or c

<400> 719

489

```

tttactagtg tattatcttt tatttattat gtaaagcttc tttccttcct tttccccaat 60
catgatatat tagtgacaaa atattacaga accggactat cagtcactta aaaaaacagt 120
ataattctaa tgctagtaaa catgtaattt aannnagttc tggaggacag ttgtctttga 180
ttaaagcccc accaaaaccc atttaagtat ttaatgtaca tactattcat attattatgg 240
cctgtaaaca ctaatatctg agcaatcaaa ctgtttttatc taccattttt gatgaaattt 300
gaataaaagtt taaaaacgtg taagcctttg aacaaatgta tgaaagcttt aaaagatcat 360
tagcactttt attttgttta caaataagct gccattttaa aaaataaaac ctcactactt 420
gaacataaaag ctcccaaaca atattgtatt aaaatgtact atattgacct aggaggatat 480
aggaaattat attcacctga ttaactggag cagtttcaca tagtggaat actttttgct 540

```

<210> 720

<211> 837

<212> DNA

<213> Homo sapiens

<400> 720

```

gcgggccgcct gcggactgga gacccgggag gacggacgcg gacgcgggct gctcgtcttt 60
tacggccctt caacgcccac cagacccac tcctcttgga gacccgggc gacggtgggg 120
ctcttgggca ttctgagact gcgcttggtg gagaccccg ggcacggtgg agctcttggg 180
cattctgaga ctgcgcttg tggagcccc tactggccag actggatttc tcagcctgcg 240
actcagcccc aggctacacg aaagaagcca gacctgggta attcttctag ttcttttttt 300
tttttttttt taattgcact gggaaacttc cccaatctcg gcccagttc tttctccaaa 360
ctaaggagtc atggcctttc gcccgctagt ccagtatgca cccgtaggcg cttcattttc 420
tctcctcttg tcagctttta ctgcctctg aggccttcgt cttgttcaca ctgagtgtcc 480
agtccctcca aatccggcta cactctactg gcaaggagca cctgggcat gttttagaga 540
tcatccgagg actaaccaca aaagtttatg aagagaaagc agaggccgag stgaagagat 600
rgacccgggt cacaccagg taaaggcagg atctaaactg aaactgggtg cagatctggg 660
tgccttgcac cctgatatac aggtgaagca acmctgggca ggatagagca gagtggaggtc 720
agagtgtgaa gatccagcct gatgccaaa ctgacgccty ttcattctcc cskgctccat 780
ctgtaaactg cmcggttaat ccatctactt tattgcatta tatagagaaa taaatga 837

```

<210> 721

<211> 738

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (736)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (738)

<223> n equals a,t,g, or c

<400> 721

```

gttttctgct attaagttga gctgtttcaa gatagaatac cggattaggt tttgagttac 60
agtagtccct ctttatctgt ggggtgtaag acctacagt gatgcctgaa agagccaaga 120
gtattgaagc cttgtttttt cctatacata cgcaactgtg ataaagttta atttataaat 180
taggcacagt aagattaaca gcaataatga gaacatttat aactagtaag ttttgtgaat 240

```

490

```

gtggtctgaa aatactgtac tgtgggaaag tgaagccatg gtaagggagg attactgtat 300
atcttcattt tgggtcttaag ctttagaatt atgggtaact aagaagccgt ttgagatggg 360
tatattccat gactaaactt acctgggaat tgtattattt acggggaagg cagytatttt 420
aaaaatgctt gtttaaggaa gcagttgctg tatttgaatt aagataactt tcattagaga 480
ttattagtga aggttggcca tctggttggc tatgtgctta tagaattata gaagtaagct 540
atttgttgac aatttttagag tttaaatttga caatcttggg tacctaccaa actttaaaat 600
agaagtcagg atttctgtta cccaaccatg ggagcyttgg ktgtcycata ttcggtaaga 660
taatctctgk taaatagtgg ggtattagaa caaatggact taagtaaaaa tcttcaaadc 720
atctttaaaa aaaaanan                                     738

```

<210> 722

<211> 506

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (394)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (470)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (481)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (494)

<223> n equals a,t,g, or c

<400> 722

```

acaagtagct gcagtagcgt acggaattac agggtagacc caagcgtacg taaaatttaa 60
aaacaaagga ctatttataaa atacagttta ttaacaaacg tgaactactt tctgttacat 120
taggtgttcc ctagtgtttc ttaatttctt ttagaaagt gtatttttat tagtattttt 180
ccggtgaaca gaagatttgt ttggatttaa acatttacta agacagtacc tattaggaaa 240
accaaatatt gcaaatgggc aattcgattt taatttctca aaagatactc tgttatccag 300
aagattaaaa tgcctacatt gagtgcttaa aaaaaaaaaa acmactgtga tratktgagc 360
agaatggcca gtaagttaaag ccttttttga tccnggtaat ccagggtatc catttaccat 420
ggaaagggga ttccccaac tactggcca gaggggaagt ttggttttttn aaatttaagg 480
nggggaaatt ttanccctat aaaatt                                     506

```

<210> 723

<211> 540

<212> DNA

<213> Homo sapiens

491

<400> 723

```

taaggggatt ctcccagctg ctaaatttaa acagtaaata tcacattttg tcattaacac 60
agctataact tgccgtgggt ctcagattta ttttggacta ttttgatgcc aagtgaatat 120
aagagyttgt actgaaacca tttattttct tctattttgc tatttgcaaa tgcttggtat 180
cttccttaca tgaagtggca gtaacctttt tcacatttaa gctacccttc tacttttgaa 240
gtgatttgca gttactcatc tgagacagca tcagtatttg actaaatcat tgtttcacaa 300
ctgaatagtc ttgttctttt agtagcaatg aaatcctaag ctcttgaggc cattcacctg 360
ccaacctgac catactgctt tcaaaagtct tttctcatca gtagaatcta ttttggtcac 420
ttctagtcaa tgaaaaatgt aaacttttag gagagaatgt ttcctaggac tcaccactc 480
cattcaatgt tacatataaa atagtgtgat caatcacaat gtccatcttt aaacagttgg 540

```

<210> 724

<211> 448

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (419)

<223> n equals a,t,g, or c

<400> 724

```

cccacgcgtc cggacccacg cgtcgcgcct gctctcctaa gataaccacg aaaggagtg 60
tcatatactt tggaggatag ccatatagat acttatcagt ggctgtgat tctttcctcc 120
agccccattc ttcctagatg attggaaaaa cacttaaggg agcattaaga ggctctgatt 180
gctactcagt gatatacgtc agtctgagag gacagggcct aggtaaaaaa gacttgtaac 240
gatgattcac aatgaccctt actgtcactt catgtaagta tagagggctc aggtatacca 300
ggctggcaac tgatggataa acggcattat gctaaaatac aattttggat ttcataataa 360
agtatctcta gaataccacg gaatacctta aaaggaagga atggcttcct gaacaaggnt 420
ggggaacctc ctccttaatt tgtttagt 448

```

<210> 725

<211> 1221

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

492

<220>
<221> misc feature
<222> (22)
<223> n equals a,t,g, or c

<400> 725
tattnctagg atatacccn antaaagga caaaagctgg agtcaccgcg gtggcgcccg 60
ctctagaact agtggatccc ccgggctgca ggaattggca cgagccgaaa gggacacaat 120
gtggcatgac taagtacttg ctctctgaga gcacagcggt tacatattta cctgtattta 180
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gctaccacac gcgtcatttt gaatcatcat gtgacgcttt caacaacggt cttagtttac 300
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agtgtttgtt aaaaacaaaa ataaaaacaa aaccacacaa ggagaacca attttgtttc 420
aacaattttt gatcaatgta tatgaagctc ttgataggac ttccttaagc atgacgggaa 480
aaccacacac gttccctaata caggaaaaaa aaaaaaaaaa aaagtaagac acaaacacac 540
catttttttt ctcttttttt ggagttgggg gccagggag aagggacaag acttttaaaa 600
gacttgtagg ccaacttcaa gaattaatat ttatgtctct gttattgta gttttaagcc 660
ttaaggtaga aggcacatag aaataacatc tcactcttct gctgaccatt ttagtgaggt 720
tgttccaaag acattcaggt ctctacctcc agccctgcaa aaatattgga cctagcacag 780
aggaatcagg aaaattaatt tcagaaactc catttgattt ttcttttgcgt gtgtcttttt 840
gagactgtaa tatggtacac tgcctcttaa gggacatcct cattttatct cacctttttg 900
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ataaatatgt agaatcaaa a 1221

<210> 726
<211> 220
<212> DNA
<213> Homo sapiens

<400> 726
tgtctgtatt tatttcttct ccaaggaaac agcctacatt ttccatgtgt ccatgtttct 60
gaggccgtgg gtgacagtgg gaattgcact aatgggggcc caccaggcct gggggctggt 120
cttagcgcta gaccttgaac aaggcacttc acctgctggg ctccaatttt ctccctctgtw 180
aatgaaaga kttgaactaa gtgatctcaa aagtttccaa 220

<210> 727
<211> 894
<212> DNA
<213> Homo sapiens

<400> 727
aattcggcac gagaggaaat ggcgtcgtgg cattgagggg catccctcct agaacctcca 60
ggaaaagctc gcggaagacg aggttctgcg gagagagagg ctccaagcag tctggggaagt 120
gtagtccagt tggttagca gtagtttctg tgggggggag ccgaggttcc gggaaagggc 180
taggcccggct tgaaaagaga ttatgactgt accttttaac tytgtagctg gaacacaaga 240
agtgtttgtt taatgaatga cgtacacatt taagatctgt ttggacgcgg aggataatcc 300
tgtgaattgc taatagttca ctgggtttgg cccttagtgt tgacttcagt atgctgagac 360

493

```

ggaaaccaac acgcctagag ctaaagcttg atgacattga agagtttgag aacattcgaa 420
aggacctgga gacccgtaag aaacagaagg aagatgtgga agttgtagga ggcagtgatg 480
gagaaggagc cattgggctt agcagtgatc ccaagagccg ggaacaaatg atcaatgatc 540
ggattggtta taaaccccaa cccaagccca ataatcggtc atctcaattt ggaagtcttg 600
aattttagag atggattatc ttgcatgcca gagegctgga atggaataaa atgatggcag 660
aagtacaaac cagattttaga gaattgagtg cttgcagtca agcagaatgt acctcctgca 720
gagacaaatc ttctgcatga gattactgat gcttcaactg cactctaagc tggaatccaa 780
actctggttt gtctcttgaa aatttgactc tataaaactg atctgatttt ctgtttttta 840
aaataaatat attttttgga aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa 894

```

<210> 728

<211> 843

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (753)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (788)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (829)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (832)

<223> n equals a,t,g, or c

<400> 728

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gtgctcttgc tccagaaaga ctcaactgctc acagctgccc agctgaaagc caaggggggag 60
ctgagctttg aacaggacca gctggtggct gggggccagc tgggcgagct gcacaacggg 120
acacagtatc gtgagggtccg ccagttctgc tcgggctctg gccaccacct tgtgcgcttc 180
tacttcctca ctcggtgttta ctccgagtac cttgaggatg ttctggaaga gctgacatat 240
ggacctgccc cggacctggt gatcatcaac tcctgcctct gggatctctc cagatatggt 300
cgctgctcaa tggagagcta ccgggagaaac ctggagcggg tgtttgtgcg catggaccaa 360
gtattgccag actcctgcct gctggtgtgg aacatggcga tgccccctcg ggaacgtatc 420
actggggggt tcctcctgcc agagctccag cccctggcag gctccccctg gcgggatgtg 480
gttgaaggga acttctacag tgctacgctg gccggggacc actgctttga tgccttagac 540
ctccactttc acttccggca tgcagtacag caccgtcatc gggatgggtg ccaactgggac 600
cagcatgcac accgccacct ctcacacctg cttctgaccc atgtggctga cgcttggggc 660
gtggagctgc ccaagcgtgg ctatccccct ggtgagccct accataagtg ggggggtagt 720
gatgcaactg ggcctcaga ggacagggct canaaacaga atgggacaca gccactcaag 780
ggaagtanag gtcccttgaa ggactcctgt ggcttctgca tgcaccttnc tnaaccctgt 840
aga 843

```

494

<210> 729
 <211> 752
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (696)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (708)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (728)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (746)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (751)
 <223> n equals a,t,g, or c

<400> 729
 caatgaacag acatttttata tcaactgtaga tacaaaaatat taaagcagtg gtttcagcca 60
 attaaatcaa tctgtgagag tggagcccag gcctgccatt tttgttaaaa gctccccagg 120
 tagttctaata atgagccaaa gttgagaagc aaaagtattg taaattattt ctctcaaatt 180
 tagagttatt acagttttata tcaaaattcaa aatgcttaata ttgcttttgt gataaagagc 240
 aatagaaggt ggtgagattt ctaaaaatta ggcctccagg tatgcatttc aaatgtagac 300
 ttcttaaatg atcgggatca gmttgtgctg cctargtagt ctgttttttt ttttaatgtc 360
 atttacataa tcatttttcca tttcctaagc acaaatgaag ttaacatctg agtttagcttt 420
 tgaaagacac cttttttgtgg ggtarggact actgttacaa atcataaaact gargggttatg 480
 acatttctctt atactttactc caagatgcag aaactgcttt tcacatagtt ttactcatat 540
 tttacaatgt gattaaggga ggctaaggta gtttaatttc atatatgtac atttttttacc 600
 taaaaatatc tgattaaagg tattattttaa taataattaa aatccgtggg cacagttttg 660
 aaccttcttt aactttttcag ttttaagctgg gcccantgcc ttccaaantg ctggggattca 720
 ggcgatgancc actgggttctg gccggnctac nt 752

<210> 730
 <211> 1493
 <212> DNA
 <213> Homo sapiens

495

<220>
<221> misc feature
<222> (968)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (971)
<223> n equals a,t,g, or c

<400> 730
ccctccctcc ctccctcact gcttccctcc ctctctctcc ctctcccttt cttttctaca 60
ttgaaatctg ttcttacata atagagaaca gggctattga ataaagaccc aatcctacca 120
gatctttagt tctaaagggc aacttgactg tgagtaggag ggccccaag aaaggragga 180
aagtcacac ccagctaacc acacaacagg gcttcattat ggaaatattt taacaaaagt 240
acatgttatt accaaccaaa gagatgcatg tgcaatagaa gccttcctta aaaacagggt 300
aaataacctc attttatgca gcagtttaat ctgagaacag agggaaagggt gtgcagtggt 360
tccagagggg ccttatattc ttttttagt ctagatattt tttgtttata aattcccaag 420
gaattgttaa cactttgggtg acacctaatg gattcttttt gaaattccaa ggtgcttcag 480
ttctttgccc aagtgaactg tgccttttat tgcatttctg ttcgtctctt ggtggctctt 540
ctgacttttt ggagaatacc catcttggtg gaggcagact taagttgtta tgcgtgcca 600
cacaatttac tgagacaatc atatcttctt aagcatttaa ggaaagttga aaaaaataga 660
attagctata aaatatgtat ggcacatctt gtttaatttt gcatgtaact tctcttttgt 720
acattgatga ggtttttagtg acattgtcat ccaacacttt acctttattg ttcagggaaat 780
gccttcgtga ttttttgtac tggttttatt attcagacta tggcctggat ttgagtatat 840
tgttattacc acctggtttt ttaattattc atcccagtaa acttatattt tgtgaagcat 900
ttgtttctca gattaagaca ctgttagaac ctaaagtagt agctgatggg tatctgtgaa 960
ttttttnttt nttttttttt ttacttgaag tagattgtct gaataggcat cctcatctat 1020
atttacccaa aacctcgctt actgtcatgt gcaactacaa ttgcaatttg gaaacctact 1080
gtattgaaat tctgtcagtt tatggttctt gaagactgat gtcctttccc aaacactgggt 1140
tactgcagca gcatttttaa tgtgtaagtg aagaaaaaag gccactaagg ccaaagattt 1200
tttaagaatc attgtacaaa tcattatggt aaactatcta agctttgctg taatactggt 1260
ttctcttcaa tatgtgatgg tacaggaagg atgttaaatg aaggggtgggt attgcaggag 1320
agcattttta atggcagaag taaaaagtta taatatattt aattttgatg gggttaagtt 1380
tatttttgta gggaagattt ttctccccta aaatagtttc tagaatggca aaattgtttc 1440
cattattaaa aattgaagtt attagttaaa aaaaaaaaaa aaaraaaaaa aaa 1493

<210> 731
<211> 1057
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1056)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1057)
<223> n equals a,t,g, or c

496

<400> 731

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gaaattatta aaaatttcaa ggtggtgggc atagagcatt aaaccaaata tgaggccatt 60
cccaacttgt tttccgaggg gaaaatggta atacttgtgt ggcacccggg gttaaacagc 120
agaggctcca tgtggccaga ggcagagatt agtatcctgg cactccagtg acccactggg 180
tgactcactg atgccacagc acccgctagg aagctctgct gaaccttagt atttggtcct 240
aaattttatg actccatgga gtccccgtag tccatggcta gttaggaaga aaggagggtg 300
gataaggggc aggccaggt gaccctaag aaccaggaga tgggtaaaag ttttttttta 360
tattctgctt ttctgatctg tgagtacctg ttgtcttcca ggccaaacct ttgggcttaa 420
atatcttttt cctagacagg tttttgctag tgttgaattt tcttcttctt ctggcctcct 480
tctgtgcccc tttccccaag cccaagactg cttaacttcc aaagcaaatt ctagatagac 540
actgtatttta ttggtatggg agtgggctct atgggggtgg ctgcacccat ctgggactct 600
tttcctaaa tcctgcacca aatgagtcag gaggcagggt gcacagcatt agtttcaatg 660
tggttatgca tcataagctt aacatcagaa tgaaaatgaa actcgatttt gatgtttctt 720
taaaaccttt cccctgtcca atccactcgc cgccccacc ttgaatagct aaagtctctt 780
atgaaacaga gaagagttgt tgacgtctaa ctcttccat taaattaata agtactgacc 840
tcctaataatt taagtgttta ctatctattg ctgtaaagtt ttgtatattt tgtaaacttt 900
tttcccaaaa tagtagatgt ctaaaatcat tgtacatctg attcttttat attccattgt 960
tcagcacaaa gtgtggtttt tatttagaat aaaaaaagaa atttgaaatg aaaaaaaaaa 1020
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaann 1057
```

<210> 732

<211> 479

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<400> 732

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tnattatgag ctgtgtaacc ttggatacag ttctctcatc tataaagttg tgggtgggaga 60
atggctgaga acagtgatct ctcaagctct cagctgtaaa gatgttaatt atgattttta 120
ctctcaagat caggccacat aaggacaggg ggaattccag ggggtgggaca cagctggggg 180
agtccagacc agggcaggga aaggagactc acaagccaaa cagagctgct ttgggggaaag 240
ttcttatcag ctggtgctgc ttctgagcc atatgccc atctcaagct gtaccccttt 300
cttggttatg taggatgagt tcctcctagg cccttggttag gagtggctat tggattctaa 360
gcggttgggg catgaggagg gatattttta aggggaagtat agctgatattt aaaagaacct 420
atacattcaa gaacaaataa aaaacagcac ttttctttac caaaaaaaaa aaaaaaaaaa 479
```

<210> 733

<211> 1519

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

497

<220>
 <221> misc feature
 <222> (19)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (26)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (27)
 <223> n equals a,t,g, or c

<400> 733
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 gtgctgggga ttaaccaggc gtggagccca accacgcccc ggccctctttt ttttttaagc 120
 tgccaatctt tttggaagga atattctttac ctctactttg tcaccttcta ctggctcctt 180
 aactaaaatc tgccatttgg ctctctgggt aacagtcctt tcctgtaaag tctaaaatct 240
 taattctaaa tccacagttt aattcacaag ctagtacttg actttttttc tgtatttgac 300
 atttttgaca acccctactt taaagattta ttcctttgac ttcttacatt ttgctcactc 360
 ctgaaccacc cccacacttt tggcctcttc atttattcct taaatggtat tcctcagacc 420
 tccatttttt ttttctctct taatcacaac accacttctc acgcttgggt aattttaatt 480
 cagcagttcc taaatcctta tctttagcca gactcctcaa tccatctgcc tgttgcaact 540
 ttcttggttg tcccagagac acctgtgtgt gtcttaaaac attcattctc tgcaaaacct 600
 actctaattc ctgtgtccct tactttgggt aatttttaga ccattatatt ctaagttttc 660
 taggctcatt cctctcctcc accttccct atcatttagt gtctaagttt tactgatttt 720
 atctccacct ctctgataca tcaactcttc atcttcattg ctattattaa taaataccta 780
 cagtactaac ctgcctccta tacctagctg gtctcctctc tgttgctcaa tgttaccaca 840
 gcaggctttc tagaagcact ctgacagtgt tactccctaa tatccttcag tgacttcagg 900
 aactttcagg agaaagccaa actcctctgt ttggtgtaca aggtcttctg atgtgtttcc 960
 tccaccgaat gttctgggtga aacagactta cacttcttca gaagccacat ttggccaggc 1020
 ctcccgccctt ggtaaatgct gtactctttg catcaagtgt gctagtcac cttccccact 1080
 tggaaaattc ctatgcatct tgcaggcctg acataagcat ttctctctgt aaacctcctt 1140
 tgctccactc aaggagagtc atctaacttc cactttcgtg tcaccactgt aattacaacc 1200
 tacctctatt gtatgtcact taaatcgtac tgtattgttt tatttttcaa aagtctttac 1260
 tagaatgtga gctccttaag ggcaggaaaa ggaacctttt tattttttgc atctccatag 1320
 catagttttt ggcatatgaa tgtttaataa atgtttgttg aataaattga ttttaaagt 1380
 acatctttat tatattagag gtcctaccta tattccaaat actttcactc ccttcacttt 1440
 acagcaaggg tcagtagagt cccaaggatt tgtagacttt aggggggtcaa taaagctgaa 1500
 attgtattca aaaaaaaaaa 1519

<210> 734
 <211> 1449
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (200)

498

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1431)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1443)

<223> n equals a,t,g, or c

<400> 734

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ggccttttct ctttcttaaa aaaaaaaagt ttgcattagt tactctaata gagacattga 60
atggattaat ttatttactt tttaattcaa attctccttt tctttagccc attattccta 120
tgtttacaca aaatattcga gaaggattta gatcacttgg aggaacaagg ttatttaggt 180
ggctttatga aaaattccgn tatccatttg ctccaatgta tggagggttt ccagtgaagt 240
tacggaccta tttaggcgac cccattccgt atgaccaca gataacagcg gaagaattag 300
ctgaaaagac gargaatgct gttcaagctt tgattgataa gcaccaaaga ataccaggaa 360
acattatgag tgctttgtta gaacgttttc attgataaca aagggtcaac tagaagatga 420
tttagtacat ttatattaaa tgtttgatc taaggtagtg tcttctgaat tttgtaggtc 480
ctataattag tatttttttaa aaaaatcatg ttaataagca tctttcacag aattcggttc 540
tttaaaatag tcaattttgt ttttgcaatt gtgtcaaata ctaacaaatt acacacctag 600
taattcagaa aaagatgtct tatttgtaaa ttcctaacaa tttatgctaa acatatagat 660
tcttaagttt attaataaca gcagtttagg ttaaacaaac attcctggat aatgcgttaa 720
atttctgtat ctgtcgccct gagctgattt tgaaagatgg tataagctag gggtagtat 780
agttgtttaa gttagaaaaa acatgctgtt gtctgcccct cattcccttc atgaccttgg 840
gcaagtcacg taatgttttt gtgcctcaac aattcacttt ttaaaaaacat gatcgtatga 900
tgaatgatat tattttgtta tttatattta ctgtgattga taactgttga accaaaaata 960
taaaataatt aattttaaca atgtcaaaat cctttagcag ttatgtatat attttctcca 1020
ttgtgtgttt aaattatgtc atgtccagtt gccaaacaca atgaaaaaga tgtattattt 1080
tttaaatga ataaaaaatt aggaaaaata aaatttctaa ttattatttt tagtatgata 1140
ttttkaacaa gagtctatag gcaaacaata taggggtgtg tgtgcattgt cagccctata 1200
ctgtggctct aataatgcca gcttaaaaaat cactgttgtg ctctgcattt cgtgtgttag 1260
aagctgattc taggctgagg aaagcaagag ttctctactt ttgctcaata ttgaggctta 1320
cccagtttga ctctacagct agtgaagygg tttattgctt caataaaaaat atacttgaat 1380
gatgaattta tttatgtttt gttttgtttt tatttagaga tgggggtttg ncaagttggc 1440
cangcctgg 1449

```

<210> 735

<211> 930

<212> DNA

<213> Homo sapiens

<400> 735

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gcggcacgag ctctctctct ctctctctct ccagaagtgg acttccctgt cccccaggc 60
agaggcagga gtgtggagtc tgtgcagagc cagccccagg agcccgtgag tgtgccccag 120
acactgacta gcacgctgga gcacattgtg ggccagctgg atgtcctcac tcagacagtc 180
tccattctgg agcagcgggt gacactgaca gaagacaagc tgaagcagtg tctggagaac 240
cagcagctaa tcatgcagag agcaacacca tgatcagggg agcaggaatc aggagctcgg 300
tggatttgca ggtggcaggc cagggatttg tacctrtggg cttgggtaaa taaaggggac 360

```


499

```

tgaactctgt gggaatcaca tccatactgg agccctggat ttttgcagtt ctgccctcca 420
ccttgctatc tgcaccagga ggctctccac ctggcagcca gaggtcccca gtgggccggg 480
ctcacacaca aatgatgctt cagacccgaa tgagaggacc acattttgct taatgtaaag 540
gagccacttg aaaatgtctg ctccctcggg gtccctgagat tgtggctccc cctctggagg 600
aggtggctcc acgatgcctt gattttcact catcatttgg acatgtgact ggcttttctt 660
acctctgcca tgggtgtagaa attgattgca cattgattgg atgagccggg ggttttctct 720
aaatctgact aaaggcccaa agtgggcccc tctgagtcag gtttggtgag aacaagccct 780
ctcaagtggg tgggtggcttt tcagtggccc tgattttctgt tccacacgtg ttcactggag 840
ccaggtgact tcctccttgc gtgagtggag gcacaggaat ctcaaaatta aacctgactt 900
cattgcaaaa aaaaaaaaaa aaaaaaatct

```

<210> 736

<211> 914

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (894)

<223> n equals a,t,g, or c

<400> 736

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ggcacgagct gaggcggcgc atgctggagg ctgccgactt cgcggctcgc aagcaccggc 60
agcagcggcg gaaggacccc gaggggaccc cctacatcaa ccaccccatc ggtgtggcac 120
ggatcctgac ccacgaggcg ggaatcactg acattgtggg gttacaggcg gccctgctcc 180
atgacacggg ggaggacaca gacaccaccc tggatgagggt ggagctacac tttggggcac 240
aagtgcggcg cctggtggag gaggtaacag atgacaagac tctgcccagg ctggagagaa 300
agaggctgca ggtggagcaa gcgccccaca gtagccccgg ggccaaaact gtgaagctgg 360
cagacaagct gtacaatctg agggacctga atcgtgcac ccagagggga tggtcagaac 420
atcgagtcca ggaatacttc gagtgggcag cgcagggtgg gaaggggctt cagggaacaa 480
accggcaact ggaagaggct ctaaagcatc tgttcaagca gcgggggctg acaatctgat 540
cagtgtctga agctatccag aggcacaact ccagcctcgt tcaggccgga caggattcat 600
acgccatctt ttctgtgtct cctgagctcc ctccatcctt ccagatatatt agaggccaaa 660
aaaagacttg cattttttct cagtctgaag gtctcctgct aactaagctg agccccgcgt 720
ggtgggaatc agatgtaccc atccatttct gatgcactca ccgcctctcc ccaagtcttg 780
ggtctgtttg ctattttgca tgggtgggatc tctggccctt cagggacttg agattattta 840
agtactagtt cctaacacgt tctggaaaat aaaaataact ctgggttaag gttnaaaaaa 900
aaaaaaaaaa aaac

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<210> 737

<211> 1227

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

<400> 737

```

gcaggaataa ttttaacta tttttgctgt aatgtgnagc tttaatgtct cttttcagka 60

```

500

```

yggacccata aaagtattcc tatactctgt gaataaagat cattcttgtg gactagtacg 120
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cccactagat aattgctgct aaaaacaaaa caaacaaaa caatacaaaa caaaaaaac 420
cctaagtaat ggaggaagaa atagcattct tttaaaagg gcttttctga agagtaaaat 480
gtaaatacag gacatgtggg gaggggtggg ccgcctgcaa aatgtcctga agatggacaa 540
atagcctttt aaattctact ttttaaccat ctttaccgtg tgtgcctatt tgtattgcag 600
atgtgaacta ctatttttgg aggttgatat cagtatgttt tgaaactgaa ttattacata 660
aaatcagagt aacctctttc tccatcctcc ttttccacac tattcttgcc aaataattct 720
actgaaaccc agtttcagca aggcaaaatg atgggactct caaacctccc tcctcatctt 780
cccttcccct ctgtcttatg cctggcctgg ccttttttgt tgttgttggc ttttcataag 840
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gtagtcattg tataattaga aacaccaa atgctgaatcct atcactgtgt tcttgggggc 1140
caggccttgg atttggttgt catttaaaact ccttgaagat tataatgtaata 1200
agaaggcaaa taaagttttt gaacaaa 1227

```

<210> 738

<211> 775

<212> DNA

<213> Homo sapiens

<400> 738

```

ggatcttcat gttttcacat cttgagatgc aaattgttag cacaggctgt cattccaaga 60
cacacaaatg tcattaaggc aaccgcttaa aggagtgtga tattttattg aggtagacag 120
gacaatagat aaatatattaa tctgttacat gtttgcctctg tgtggagcca gggttggggc 180
tgcacaaactc tctggctgct atgtgtcttc ctggaaaacc tgtcaaaggc cttaccgcct 240
gcctggagaa acacagtgcc tgcccttggc aaatatatgt tgggtgtatct gaaaaacagc 300
tcctggaagc tttttctcat tcaggcttta ggggttaccc catctttcct tatgtgtgta 360
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aagatagtga gcagtaagtgt tgccttaggc taggctacga gaggccatga gctcctcatc 480
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cctctcctga gtctactttc tgcatcattg gttctcccag ctcaactcca taatgtcctc 600
ctaggctgca ttggaattgt gtgttgtcta gacccatggc caagactgtc attgcctgtg 660
agggagacca agctcaccac caagggcttt tgccagattg ctttcattta cagaatttgc 720
ccattcatgt gtcttttgtgt ttatggatta aatggctttc tgaccagcaa aaaaa 775

```

<210> 739

<211> 1437

<212> DNA

<213> Homo sapiens

<400> 739

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cgggtgtaccg tgtctttaaag ccctgaaag awaacgctaa taamgcaaaa agcttactgc 60
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atatggccca gttttctgtt ttattaccaa gacattaaag tagcatggct gccaggagaga 180
aaagaggaca ttctaattcc agtcattttg ggaattcctg cttaacttga aaaaaatayg 240

```

501

```

ggawagacat gcagctttca kgccttggcc tatcaaagag tatgttgtaa gaaagacaag 300
acattgtgtg tattagagac tcttgaatga tttagacaac ttcaaaatac agaagaaaag 360
caaattgacta gtaaacaatgt gggaaaaaat attacatttt aaggggggaaa aaaaacccca 420
ccattctctt ctccccctat taaatttgca acaataaagg gtggagggtg atctctactt 480
tcctatactg ccaaagaatg tgaggaagaa atgggactct ttggttattt attgatgcga 540
ctgtaaattg gtacagtatt tctggagggc aatttggtaa aatgcatcaa aagacttaaa 600
aatacggacg tactttgtgc tgggaactct acatctagca atttctcttt aaaaccatat 660
cagagatgca tacaaagaat tataataaaa gaagggtgtt taataatgat agttataata 720
ataaataatt gaaacaatct gaatcccttg caattggagg taaattatgt cttagttata 780
attagattgt gaatcagcca actgaaaatc ctttttgcac atttcaatgt cctaaaaaga 840
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cattgatattc tgtacagtca gaacagtact tgggtttgca acagctttct gagaaaagct 1260
aggtgtttta tagtttaact gaaagtttaa ctatttaaaa gactaaatgc acattttatg 1320
gtatctgata ttttaaaaag taatgtttga ttctcctttt tatgagttaa attattttat 1380
acgagtttgt aatttttgc ttttaataaaa gtgsaagcct gcttttttaa aaaaaaa 1437

```

<210> 740

<211> 1389

<212> DNA

<213> Homo sapiens

<400> 740

```

gggacggcgg gcacagcgca gcactccccg etcgttggcc cgggtatccc agcgcggacc 60
cacgcgatac gctgacgccc cgacgccgat ccggccgagc caagactcaa cgatgactct 120
gaataatgtc accatgcgcc agggcactgt gggcatgcag ccacagcagc agcgctggag 180
catcccagct gatggcaggc atctgatggg ccagaaaagag ccccaccagt acagccaccg 240
caaccgccat tctgtacccc ctgaggacca ctgccgccga agctggtcct ctgactccac 300
agactcagtc atctcctctg agtcagggaa cacctactac cgagtgggtg tcatagggga 360
gcaggggggt ggcaagtcca ctctggccaa catctttgca ggtgtgcatg acagcatgga 420
cagcgactgc raggtgctgg gagaagatac atatgaacga accctgatgg ttgatgggga 480
aagtgcaacg attatactcc tggatatgtg ggaataaag ggggaaaatg aatggctcca 540
tgaccactgc atgcaggtcg gggacgcata cctgattgtc tactcaatca cagaccgagc 600
gagcttcgag aaggcatctg agctgcgaat ccagctccgc agggcccggc agacagagga 660
cattcccata attttgggtg gcaacaaaag tgacttagtg cggtgccgag aagtgtctgt 720
atcagaaggg agagcctgtg cagtgggtgt tgactgcaag ttcacgcaga cctctgcagc 780
tgtccagcac aacgtgaagg agctgtttga gggcattgtg cgacaggtgc gccttcggcg 840
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caggaaagcc aggcgcttct ggggcaagat cgtggccaaa aacaacaaga atatggcctt 960
caagctcaag tccaaatcct gccatgacct ctctgtactc taggaaccca gggtcaccca 1020
gatgtccctt tgatggccgt tgttgaaggc cattgggacc aataatctat attagattga 1080
atacttaagt tagatgtggg tccccccatt gtagcaggga gctagcgtat tagccttgtg 1140
ggcaacatga tgcattggaa atgaaaagatt tttgtaaaaa gtcagtattt atttccagga 1200
aaagcctgac cttgctattt gaacacccaa gactctttag aggatgtgtt tgggtgtcac 1260
atgkgttttyt tytatttttg atagtagrga agtaaagcct acaaagaatg cctagaacaa 1320
gaacttttca tcattaaaaa tttttccag tgtytgaaa aaaaaaaaaa aaaaaaaaaa 1380
aaaaaaaaa 1389

```

502

<210> 741
<211> 852
<212> DNA
<213> Homo sapiens

<400> 741
gtttcttgcg ggggataaaa aagggttgg gagattcatg cgatgtgtcc aatcggagac 60
aaaagcagtt tctctccaac tccctctggg aagggtgacct ggccagagcc aagaaacact 120
ttcagaaaaa caaatgtgaa ggggagagac agggggccgcc cttggctcct gtccctgctg 180
ctcctctagg cctcactcaa caaccaagcg cctggaggac gggacagatg gacagacagc 240
caccctgaga acccctctgg gaaaatctat tctgccacc actgggcaaa cagaagaatt 300
tttctgtctt tggagagtat tttagaaact ccaatgaaag aactgtttc tctgttggc 360
tcacagggct gaaaggggct tttgtcctcc tgggtcaggg agaacgcggg gacccagaa 420
aggtcagcct tctgaggat gggcaacccc cagggtctgca gctccaggta catatcacgc 480
gcacagcctg gcagcctggc cctcctggtg cccactcccg ccagccctg cctcaggac 540
tgatactgca gtgactgccg tcagctccga ctgccgtga gaagggttga tctgcactc 600
gggtttgttt acagcaattc ctggactcgg gggtattttg gtcacagggt ggttttgggt 660
taggggggtt gtttgttggg ttgttttttg ttttttggtt ttttttaatg acaatgaagt 720
gacactttga catttctac cttttgagga cttgatcctt ctccaggaag aagggtgcttt 780
ctgcttactg acttaggcaa tacaccaagg gcgagatttt aaaaaaaaaa aaaaaaaaaa 840
aaagaaaaaa aa 852

<210> 742
<211> 446
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (321)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (372)
<223> n equals a,t,g, or c

<400> 742
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tgcagtttta ggtcttatgg ccagagagat ttgaagatat ttaatatctc taagctgcaa 120
tctttatctg caaactgggg ttagtaatcc aatcaacctt attgcggata ttgtaagaaa 180
aaatgagatg acaagtgtaa aaactcagaa ctatacttac aaggtaagca gacaaaaatat 240
gctattgttg tgattgtttt ctctctgaat aaataaactc tgctgaagaa ttatttagat 300
atgtttctcg aatcgagaat ncagttccag ctctcatttc tggcactgac atattggcca 360
aatatgattc tnatacaata atcagctgct ttgctgtgag ccttggagtg gtcagctggt 420
gatggmctgc ttgtattcct attcag 446

<210> 743
<211> 892
<212> DNA

503

<213> Homo sapiens

<400> 743

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aattcctaaa attgcaaata atactcaact atgaagaatt ttattagtta cagtgcatt 60
aaagaatatg tgctcctttt tattatatta tcagataact atgtttaatt gtacattttt 120
taaatcctga atatatgtg ttttgtaac aaatgtaatc agtggaacc ttcttacgtt 180
ttgattatta gcagttaaat acattttgta tacatgaagc ttagattaat tcccatcatc 240
atcatctcct gtttttata gtgtccctat gtgtttcatg cattcctctt tgatcagatt 300
ggaatttgag ttaaaattta gctttgtaca ttacgtgtga gagttacaga ctagcaagtc 360
taattacttt gccttacctt gagtgtatgc cacagggta gataacacat taaacattta 420
gttacactgg attactcttc caaagctgac ctctgtctaa tgttcagagg taactgcaat 480
ccggaaagaa ataatatcac tgcagaaaga atgtgactct aaaaataaac caggacctcc 540
ctgtgatttg ccttgccctg agatgaccag ttgactcttg tgctgtcagc cctgggggtg 600
ctaaggaagc tgcttcagg agttgggggt tagttgcccg ctctcaacag gaatgcctcc 660
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aagaataacc tgtgagtcag agttgatgca cattattttt gtttttattt ttttttttta 780
aggaactgct ccaaggggtt attatagaac aggagtgtgt acggaggact taggtcccca 840
catagagtgg ccgttctgta atgaaccctt ggagcagttc cttaaaaaaa aa 892
```

<210> 744

<211> 700

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (175)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (178)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (249)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (683)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (692)

<223> n equals a,t,g, or c

<220>

<221> misc feature

504

<222> (694)

<223> n equals a,t,g, or c

<400> 744

```

tgcaggtacc ggtccggaat tcccgggtcg acccacgcgt ccgatttcaa aagctaatac 60
tataatacat ttccataaaa atgatgtttt aagggtaaaa gaaaagaagt aagctatttt 120
cctagataaaa gctgcccagt ctaacaagac ataaaacatg tttttcggcc taggnntntt 180
atcaattttag agtggtaatg ctgggtcaga tgttttgatt aattaatctt tgattaataa 240
gtataagana gctaattatt agaagagaag gttgttttat aaacatcatc tttcaaaatt 300
cgagatttat ggggaataaa ttaggagaag gtggttaaac ctcttcaaca ataaattgct 360
ctttggggac attttatgca cagaactgtg caccctcctc agaacagcag gtctttaatg 420
gccccatgtg tgagaagggc cccatcaagg cagcaggaat gggccactct cccacacccc 480
atgggccagg ccaactgccac tctgtctgcc ctgcatcccc aggtttatgg ctgcatggta 540
gaagtcactt ctgtaagaaa ttcacctttc taaaataaag tatgctcttt tttctgagac 600
atctatagaa taacttgttg cagagtgttt taaaaactga tttggatttt ttttatcctt 660
taacccgtgt gaaaggatgg aanggatatt angngaaga 700

```

<210> 745

<211> 442

<212> DNA

<213> Homo sapiens

<400> 745

```

agcgagaggg agaccaggg ggctgaaact tgaactctgg ttctttttaa attaattttg 60
gttgggtgtg ggggagggcg gagtgcgtgt gagaagaacc gaccacccc gcgcaagggg 120
aagcctcctg tctccccctt ccccgctcc gagragggcg aaaccacag tgttacctga 180
cttatgaaac ttgaaaccgc ctctggagcc gccattctgc agagtatttg gaaaaagaaa 240
aaagggttta tgcttacgtc tctggggtcg gggggattat gtcacgagcg ttcaaaactgc 300
tggaatctc aaaactgtac tgtctttatt tttgtatatt gtatttatat ataaaaagaa 360
acgtctacgt atgcatgcta aattattatt tagcgtctcc catcgccac gatggaatgt 420
aaaataaatt ggttttgtac tg 442

```

<210> 746

<211> 1329

<212> DNA

<213> Homo sapiens

<400> 746

```

tttactccag gtagatttcc acaatatgca aagtgggtgg ggggtcaaga cagatgacac 60
cagcacttta aactctttgt gtgggtatgc gtgggtgtat gtttgggaag aaaaacaaag 120
gtgcagacta tcttcctttt tttcttcttc agcctccatc cctggcctcc tcccctcaca 180
cacactggac ttggtacaaa atgtcgggtg ggtcctagat gaagcatttg ggtgggggag 240
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gggaaaccat ttatgccaag cttttcccca tttcccatat ttatctcatc tggttagctg 360
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agtctaaaga ctgagctcac ctggctagat tgttgtgtgt tttgttgaat tttttcataa 480
tgtaatgccg tatttattgt ttttaaaatg aaaggaatac taataagtct taaaagttcc 540
ttcatgcata agattttttt ccagttactg ggcttaactg gtgtacatta attagatgtc 600
catactgtat tttgtttgca ttaagtaatt ttctttttga cttagtatcc ggcacacaaa 660
gtgggttagt actacagtat ttgcgttact ttaagtacta agtatgcagg tttcctggta 720
ccattgagtt gctgctatta aagctcacac acgaaatggc taaaagttac aagtgtgcaa 780

```

505

```

attatgactg cgtgagcctt agaaaataaa atgtataaag ggcaacacat gasctgtcaa 840
acagtgttag gagtgtgttt atatgtacag agttgtgcat agcaatcgtt ttattttaagt 900
tgatatgtag tetactcaca tttycattat ttagcaattt tgtacaaaaa tagcmattaa 960
tttgtaaaca ctgccagaat actttctagc tgctttgtaa ttttttaaga gtgttatttt 1020
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ctgtaaataa aattgcagta tttaaagctt aagctttcag gaaaaagaaa ataagaattc 1140
agtgtgtgca tgacaactcg tgtgtatgag aaggagggat atgaaggaag atggcttgca 1200
gagtaagtcg ggtggcaatt gtcaggggtg gatcttacca cttcaaattg gtgtaatttg 1260
aataaatttt gtatggtaaa ggatcaataa aatgattttt ttttaagaaa aaaaaaaaaa 1320
aaaaaaaaag                                     1329

```

<210> 747

<211> 239

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (204)

<223> n equals a,t,g, or c

<400> 747

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ggcaacaatt tccttgggaa gctgccaaaa tcttatcttc agtctcaaaa ctcttatctg 120
cagtcatagc tagtctagaa aggtaagtct tgatttctta gctaaatgag taaagtttgt 180
attctacaaa gaaaatagaa tacnaataaa aataataatg gagaagcaaa cttaaattc 239

```

<210> 748

<211> 1589

<212> DNA

<213> Homo sapiens

<400> 748

```

gcttttagaag aacattttcta gggaataata caagaagatt taggaatcat tgaagttata 60
aatcttttga atgagcaaac tcagaatggg gctacttgaa gactctggat ctgctgaactt 120
cagaagacat tttgtcaacy tgagtccctt caccattact gtggtcttac ttctcagtc 180
ctgttttgtc accagttctc ttggaggaac agacaaggag ctgaggctag tggatggtga 240
aaacaagtgt agcgggagag tggaaagtga agtccaggag gagtggggaa cgggtgtgtaa 300
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tgtttcttgt cgtgggaatg agtcagctct ttgggattgc aaacatgatg gatggggaaa 480
gcatagtaac tgtaccact gtgaaccacag aaatgccaca ccatggaagc cacacactct 540
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atttgcactc ttgggtccaa accctcaact ycaacacctc tgtctttctg ccccatccac 720
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tggataattg ccatactcct caccaagttg ccaactggact ttcttgcccc taaatccact 840
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ccctttcaga acaccctctg cccttggatt ctgtgcacag gaagctagtt gctccccctga 960
atacactctt tcttccttgt aatacagcct ctgattttga gcccaagaat aaagactaca 1020
gttctcagac tccttcgcaa ataaattttg tgactaaact ctagtcaaca gtaagggtcat 1080

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506

```

gtagcagctc ytggaactct cctttaaaaa gagagcttgt ttataacctat tgksatctct 1140
gttctttctgt gcccctkctt ccatttttgc gcttggaag cagatgtgat ggctgkaatt 1200
ccagtcacca ttttggaacca tgaggacaac accctagaga tgtggagtgg ctaaaagaag 1260
cctgtgttcc tgagaactta gaggaccagg acctctattc caggcttgga cacctacatt 1320
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tcaaacctga attgtaagtg aaattgcttt cctgatagca aacctgttgg attttctcca 1440
gaatccctgg gccactttta gcagtcagat tcgtctaata ctcctttaaa gatggtggca 1500
gtgaaactgg tacatgggac ctgactgggc tttgtttgca actttctgat aatttataat 1560
tatttcaaaa taaaaaaatt ttaaaaaata 1589

```

<210> 749

<211> 633

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (627)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (632)

<223> n equals a,t,g, or c

<400> 749

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attcatacta gcatgctcat gaataaggca atgtgttaag cactggcata caaatgcagc 60
taaagggtgct gaaggaaggc agtgggggtgg tgcaggcaca cagcaggag ctcttccccg 120
tgacacgtta gtcattcttct ccacagagca scacccaasw gccttccttc agcaccttta 180
gctgcatattg tatgccagtg cttaacacat tgccttattc atactagcat gctcatgacc 240
aacacatata cgctcatagaa gaaaatagtg gtgcttcttt ctgatctcta gtggagatct 300
cttttgactgc tgtagtacta aagtgtactt aatgttacta agtttaatgc ctggccattt 360
tccattttata tatatttttt aagaggctag agtgctttta gcctttttta aaaactccat 420
ttatattaca tttgtaacca tgatacttta atcagaagct tagccttgaa attgtgaact 480
cttggaatg tttattagtga agttcgcaac taaactaaac ctgtaaaatt atgatgattg 540
tattcaaaaag attaatgaaa aataaacatt tctgtccccc tgaaaaaaaa aaaaaaaaaa 600
aaaaaaaaaa aaaaaaaaaa aaaaaanaaa ana 633

```

<210> 750

<211> 967

<212> DNA

<213> Homo sapiens

<400> 750

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gggaggctct gaggaccaat tggaagaccc agcactaagt ggtaaggctt gggagtgtga 60
aatggggagg aggggctggg atcttggtgg gtggggccag gccctgagtc cctctctgct 120
tgcctttcag agcctgggga ggaacctcag crcccttccc cctctgagcc tggcacatag 180
gcacccagcc tgcattctccc aggaggaagt ggaggggaca tcgctgttcc ccagaaaccc 240
actctatcct caccctgttt tgtgtctctt ccctcgccctg ctagggtctgc ggcttctgac 300
ttctagaaga ctaaggctgg tctgtgtttg cttgtttgac cacctttggc tgataccag 360
agaacctggg cacttgcctg ctgatgcccc cccctgccag tcattcctcc attcaccag 420

```


507

```

cgggaggtgg gatgtgagac agccacatt ggaaaatcca gaaaaccggg aacagggatt 480
tgcccttcac aattctactc cccagatcct ctcccctgga cacaggagac ccacagggca 540
ggaccctaag atctggggaa aggaggtcct gagaaccttg aggtaccctt agatcctttt 600
ctaccactt tcctatggag gattccaagt caccacttct ctcaccggct tctaccaggg 660
tccaggacta aggcgttttt ctccatagcc tcaacatttt gggaatcttc ccttaatcac 720
ccttgctcct cctgggtgcc tggaagatgg actggcagag acctctttgt tgcgttttgt 780
gctttgatgc caggaatgcc gcctagttta tgtccccggt ggggcacaca gcggggggcg 840
ccaggttttc cttgtcccc agctgctctg cccctttccc cttcttccct gactccaggc 900
ctgaaccctt cccgtgctgt aataaatctt tgtaaataaa aaaaaaaaaa aaaaaaaaaa 960
aaaaaaa 967

```

<210> 751

<211> 695

<212> DNA

<213> Homo sapiens

<400> 751

```

attcggcaga gstgagtgg taggaggtgc agcagtcttt gggtagcagc ctactcaaga 60
aaagaatgat aattacatac tcacaatctt tagccatcaa gcacttattt cctcaactcc 120
ccctccccct ggctatttgc caaacctaa atcctgtatc ctatttactt catgcctgtt 180
ggttactaag tagttccatt tagagtacac attcattgtt gccttgaact tgctctgctg 240
ttatggcacc tgaaaactag atgttcttgg atgggggtct tccttcatca aagcttcttc 300
ccatttgtac ttcagttcta ggacaaggca agargaaagc aagaagctgt aaatcccat 360
cctctgggtc tcaatttcac cctcagttca aggagctgag taggcagagg caaaggctat 420
actcaacaca cgtgcaattg aaagcaggcg aggcaaaacc agggcagagg aaaggaaagg 480
ggtgtgtgta ggtatggatt tatgggtagg tgggtcggtg ggtagttga agaggaggtt 540
ctaagcagta taacctaagc ctcttttctc tttcttctgc ttcaaacc ttaagaactg 600
ctcagggtag actggagaca aaagcaacag ctcagaagtg ctaaatcttg aagagcagcc 660
aaagcatggg caacaaagtg agaccccatc tctac 695

```

<210> 752

<211> 390

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (370)

<223> n equals a,t,g, or c

<400> 752

```

aagcggccgt gaaagtgttg tgctatcgac aacggtatgc aggccgcctt ttttacgcgc 60
ccagctgacg ggtagccagg tgcaaccatt aagcatcgca atctgttgct gtgccagttc 120
agcagaactg swtgtcagaa tgggcacttc gtcagcaccg atcaaacctg cctcatgctg 180
ttgaaaatct ggccccact caagtcgcag ataattaaga tctcccttta gttttgaagg 240
ggcactggta taaagcgcta aagtgaata tcccagcaac tgactactwa aattcgtcca 300
ttttgggcgc ttcagtggta aataaggaag atcaagctgg cgttcatgca gctgttttac 360
cagagactgn ccgtttgggg caatttcggg 390

```

<210> 753

<211> 508

508

<212> DNA

<213> Homo sapiens

<400> 753

```

gcctgactgg ttcacccctcc ccggaacttc ctagacgccg tacgtgccag atggtgttac 60
ctggagctta aaaagctgca cgcaagtgtt aaactttctga caatggccaa gaacaaatta 120
agagggccga agtccaggaa tgtatttcac atagccagcc aaaaaaactt taaggctaaa 180
aacaaagcaa aaccagttac cactaatctt aagaagataa acattatgaa tgaggaaaaa 240
gttaacagag taaataaaagc ttttgtaaat gtacaaaagg aacttgcaca tttcgcaaaa 300
agcatttcac ttgaacctct gcagaaagaa ctgattcctc agcagcgtca tgaaagcaaa 360
ccagttaatg ttgatgaagc tacaagatta atggctctgt tgtaataatac tggatgatgca 420
tctaattctc cacaaaagacc aataaattga atgttttata caatttttaa atcttggtta 480
tgtacgggct tgggcacttt ttaaaacc                                     508

```

<210> 754

<211> 1162

<212> DNA

<213> Homo sapiens

<400> 754

```

tagttctaga tcgcgagcgg ccgccctttt tttttttttt tttttttttt ttttttaaag 60
agagtgtgta tgtacttttt ctctctataa gggccagggt gttggtcaaa ttcaccatcg 120
attaatttat atcttctgtt gtgatttttt tcaactatat aacaagtgcc aactaattgt 180
ccatgggaca atctactttt cactcaatt tatcgttttg agtagggaaa ggttcattta 240
ttttcattac ctggcattaa gttaaagaat tcattatttt gcatacattt gagtcattct 300
gtgacctata aagtgttttt gtaactatct aattctaata gttgcaaagc aaagcacatg 360
actgtaaaaa caagcaagggt gtttttagtaa ctttttccct gaatacttgg tagtttccat 420
tgatactatt ccaaaaacaaa ttctgctgtt ttaggttgta tatttacttt gcttttggtc 480
taagaaaaag ccaaggacta aatcaacttg tttttgtgtt tcagtaatca gtttaaaatc 540
taagattttt ttttaaatga gactatttaa tgaagtgcc tgaattgta gcttgctagt 600
gtttaatgtt taatagactg gttctgtagg tgttttaacc atttaacact ctctgccatc 660
cctggagaaa gtggttctac tcttactgaa cacattctct ctgacaaaat caccagctgc 720
tttatttttc tattttattac agttaaacag ttgatgagggt ctgaatcttg accaaaaactg 780
ctcagctgag atgtttttca caatagacac tgtacaaagt gtgcgtgcaa aaggacacgg 840
ttggtagtat tttttcatta atgtgaacat tgactaaaaa aaagcagtc tgccttttaa 900
atcttgtggc agctcagaag ggaggtgctt aagaacctta actactatgt cagataacaa 960
aatatttttt tccatttttg agattggtta ctgctcacac atgatgtata gggctaaata 1020
tatgcttggt tctttgcacc tgtgtacttc cctctctctc ctcccttttc tccccctgta 1080
ggcaataaat ggccattttg caactgcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1140
aaaaaaaaaa aaaaaaaaaa aa                                     1162

```

<210> 755

<211> 1087

<212> DNA

<213> Homo sapiens

<400> 755

```

gcccacgcgt ccggcgtctt gwggctgcgg cctgcccctc agcctcctcc gcgcggttac 60
ccctgtaccc gccgccatcc gtccctggcg tccggatgag tcaatgaggg gcaggggccc 120
aggagtggtc ttcccaagaa cccctggttg cctcccaagg ccggtgctgt gtacctctc 180
cccgaacaaa ggggaaactg aggccccgag gggagtggga agagccggct ggacgtcagg 240

```

509

```

cccagccgct ggtgcagtgg tccgtcccct ctgccgggggt gggcccctcg ggtttcgcgt 300
gtcctcggga aagagactgg cgggcctcgt gggctgtgcg gctatcctgg agacagatga 360
cagctctccc twggatggct ttgctgggtc cgcaccagcc agcgcccca ttttctctgc 420
agcaccctga tctgcactcc ctgaggggct cccactgtcc gcggtgtgag gatgtccctg 480
gatagtccac tgtgtgcaga ggcattggag ttgtcatgtt gggaaacatgc tagacctcag 540
tacccttgag ggatgctgcc ttgggtctgg aaactgttag aggaaacccc aagaggtgca 600
gscactgagc ctctcaggac aatgacctgg ggtcccagct cccctggagg ggctcctca 660
tgattgtttg ggggttgatc acagaccaag agtgacgagt gatgtcacc tgtgactcat 720
ggccggacct tcttgccctt attgtctcag cacaacatta ttctgacttt cctcagcgt 780
gggtgggcag aggaaaagcc ctgtggctct ggggacttgg gatccagagt tgaagacct 840
tcagctggct ctgccctgcc agtgccacag agtgccatgg cccaggaaga caggttttct 900
tccatctagg ccaggccatc cagtggccat cctccgtgtc ctcccgctc ctctgggtgt 960
gacttctgaa aaccaagaat ttgttctgtg tgactttttc tgtgctatgg accattgtcc 1020
tctcaccacac tcaataaatc ttgaaacatg maaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1080
aaattac 1087

```

<210> 756

<211> 803

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (773)

<223> n equals a,t,g, or c

<400> 756

```

gacgggtcat gagcgcggtg ttactgctgg cctcctggg gttcatcctc ccaactgccag 60
gagtgcaggc gctgctctgc cagtttgagg cagttcagca tgtgtggaag gtgtccgacc 120
tgccccggca atggacccct aagaacacca gctgcgacag cggcttgggg tgccaggaca 180
cgttgatgct cattgagagc ggaccccaag tgagcctggt gctctccaag ggctgcacgg 240
aggccaagga ccaggagccc cgcgtcactg agcaccggat gggccccggc ctctccctga 300
tctcctacac ctctgtgtgc cgccaggagg acttctgcaa caacctcgtt aactccctcc 360
cgctttgggc cccacagccc ccagcagacc caggatcctt gaggtgcca gtctgcttgt 420
ctatggaagg ctgtctggag gggacaacag aagagatctg cccaagggg accacacact 480
gttatgatgg cctcctcagg ctgaggggag gaggcattct ctccaatctg agagtccagg 540
gatgcatgcc ccagccagggt tgcaacctgc tcaatgggac acaggaaatt gggcccgagg 600
gtatgactga gaactgcaat aggaaagatt ttctgacctg tcatcggggg accaccatta 660
tgacacacgg aaacttggtc caagaacca ctgattggac cacatcgaat taccgagatg 720
tgcgargtg ggcagggtgtg tcakgaracg ctgctgtctc tagatgttag gantcacatc 780
aaccctgggtg gggacaaaag gct 803

```

<210> 757

<211> 796

<212> DNA

<213> Homo sapiens

<400> 757

```

ggcacgaggg aagaagaaaa aaatggatgt tggaaagttg twgcatgtct ctctggatag 60
ctcagaagta tcagttgtgg ttattscctc acttggtttt tgtaagcatg aaaaagccag 120
ggacaatttc aactaccatt tctgaccatc atcaaccaca aatttttaggc aatttgttag 180

```

510

```

aatttttttt aaatgttctt aatagttggt gggtagcttg gagatttcag agaaagtaat 240
caccttttga tatattatta atgtgtttat aatagaaatt aaattctttg ggatgtacag 300
gtaagataag ctatgtgaag catagctggt atccaagtcg tgtgcctttg aaatacttgg 360
aatttgaaga acaggacatg cagcttatgt tataattaat ttgcgagcaa tatatggcat 420
gatagtatct tcttatctaa attctgagtg cattgaaagt tttaaagcaaa ggacaaaagc 480
ttccttttgt catggcccat attccagtat atttttctga aactgccaat attttctgat 540
cggtagctttc atttttctag ttggttacca aatactgtta ttggtattat ttctatataa 600
aaggctttta gaagactata gtataatctt cttaagaaaa aagacatgat tataagctaa 660
aatatgcctt cggttttgtg tgctacaaat tgaggggagat tgagaatatt ttaaatacaag 720
ggcmgacatt gagtaaaagc ttatgacttt ggatggattt gaaacaygat taaatgacag 780
agtaataaaa aaaaaa 796

```

<210> 758

<211> 335

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (271)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (312)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (316)

<223> n equals a,t,g, or c

<400> 758

```

aattcggcag agggtagaa tcagtctaga aatcatgtca aattcttatt acttgctatc 60
aaactagctg gttcaattcc ttattagtgat tctgcaataa gataaaatct tgtgctacaa 120
cataaagcaa ctatctcaat aaacacagtt taattcagct aactttatct tttttttagt 180
caagawtttt tcagtgaat aagtgggtgtg ttgatttata gtttggtgca agctccctat 240
cttcttgcag acctataacc attgtgccag ngggtaaagaa atggtcccca gcccttccac 300
ccgtggcact gnccncaca gggaacccct ttggc 335

```

<210> 759

<211> 1019

<212> DNA

<213> Homo sapiens

<400> 759

```

gtggtgagct gagatgacgc cattgcactc cagcctaggc aataagagca aaactctgcc 60
tcaaaaaaaaa aaaaaaaaaa aagtctaaag gcttaaaagt tgatgcagct acctgaaatg 120
atcttttatt tattttattat tagaaaaagc aaaggcatat gggcattgct tattagtttg 180
aattctagag actagatctt aaagtagtgg ttctcaaagt gttgtgcccg caccaacatc 240
agaatggcct gcaaacttgt agcaaactct ggggaggagg ccagcattct gtatttttaac 300

```

511

```

aagcttccct caggagattm tgatgcctgc taaatTTTgg gaaccactgt tttaaaggaa 360
actTTTTTTT tctTTaataag catTTaattg tatgasatga ttgctTTTtac atgtgatttc 420
cttgcaaatg ttctgaagtt gaggcacac caaacaagtc tgaacaattc tttatgtgat 480
ttatTTTTaa agtagacctt ttgaagagat ctatgaatgg gatataaagc aattttcagt 540
gttacagggt ttcttcttct tctcaaaact gtttgcTgta agtaactgca atcagtactt 600
actactttcc atttgcttat gagtttcttg acaaatcaag gtgtagaaaa ccagttatta 660
agtgattttg tactttcctg gtagttgtca ctaaaataat ttttgtggca tataaatata 720
tttaataaaaa tgcaaaaatt atcttctgt ctagtagaaa aaattacatg agtaaagtga 780
agcttctgtc tttgttactg taccagggtga caacagmtga gtgtccctcc atggacagtc 840
actattggcc ttttgagtga gacagttctt taggataaaa rcctgtcatc ccattgcagg 900
attcatttag ctttctgtgc ccttaccas tgatgctagt cattgtgacc accccacctc 960
cccaaataa aagtgtgcc aactaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1019

```

<210> 760

<211> 1504

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1383)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1441)

<223> n equals a,t,g, or c

<400> 760

```

ggtcgccgga aactccgggc ggccggaggct ggaccagagt cgagttccct cctcctgcac 60
caaaggaggc cgccaccgct tgggtgtctaa accgcctcgg ttccagaaaag ctgagtctga 120
tctggattac attcaataca ggctggaata tgaaatcaag actaatcatc ctgattcagc 180
aagtgaagctg tcaccactga ctaaaagaaga gaaaactgcg gcagagcaat tcaaaatttca 240
catgccagat ttatgaagaa atggacttgg aaaggaaatt ctaacagaga agagcttaat 300
tccggagaaa tttaggaaga tgtcttgTta acccttgatg tctagagatt gggggctggT 360
gaaggggggt tggcttcaat gactggataa tgatatcttt catgagagag attataagaa 420
gaagggcaga taatatatga ataaagtTca gccaaaagga tcaaatgaga ataaaacgat 480
ttaaatatat gtacacacgc atgcacacac acacttagtc ttgtaatttc aggccagaaa 540
ttctcaacac tatTTtgcat ctgTTTTctt tttctaagtc atgataatat agatgttctg 600
gtctatcata aaagaatgtt tatgtacatt tcagtcattc ggtatgtggc tttgtaaatt 660
aaagtatagg caaaacattt gtgttataca tgatatataa tttcattttg taaatgttga 720
ttgcacatgt ggtcacatta ttgttgagac tgcttttatg tgacctgtag tctcccacag 780
aacctaaagt aataagctgg cttttctgtg atagccacgt ttgcgtattt ctttccctat 840
ttcccttgcc tgctaattgtt gaacagcatg aacttgcttt ctgatgctgt tttagactgt 900
ccctgttgta tctcaataat atctttgttt tccttcagcc tttattacta taattgttca 960
ttctacatga aagctaggaa actgraatta gaagagcact tatctgctac ttgccagttt 1020
tgctgtgagt tgttatatgt atgtgtcaat ttccctTTaa aataactatt tattTTaaaa 1080
taactattgg caataaggaa actgttcaaa gttagaggcag atcttgatag aaagatgtta 1140
atcacagggt tgtttataat agcaatatac atacacattt ggctagtact aggtgaatag 1200
gaaaataaat catgctgtat gtatacaata agaggTcaag ttgccaaata attattactg 1260
ttaatgttct gggraatgct graactatgc taartggggg agaggggraag caggtattgc 1320

```

512

```
artttttgtar tgaagattgg gcttttggagt catatctgag atgtaagtag cagcttttta 1380
atncctagct atgaccctgt gcagatcact taacttttga gtggtcagga tgttggaagg 1440
ncaagacagg aaagtgggtt taataccagg gtcccagtat ttagtaagcc tccaataagt 1500
gata 1504
```

<210> 761

<211> 813

<212> DNA

<213> Homo sapiens

<400> 761

```
gggccgagggc aggggggatca cctgagggtca ggagtctcta ctaaaaatac aaaaattaga 60
caggtgtgggt ggtgggcgcc actcaggagg ctgaggcagg agaatcactt gaacccggga 120
ggcagagggtt gcagtgaagg agatcatgct gctgcactcc agcccgcccg ctcaccgtgt 180
gtgttgctgg gtgctggggc tgtgacttay cccctctcct ttagccttgc cataagtgt 240
gtatcctatg aggctgagat tgggaaagggt tacatgcagg taagccagtg gacgtggccg 300
atgcttcagg ctccctccag ccagggtccag cagtgttacc atctgcttct cctgggagga 360
caaaccaggc acccccacca tgaaggggct gcaggcacca tgaactatgt taacaacccc 420
agtctgtact acagaaaagg ctgcagccac atgagaattc agtccacaca agcccatgg 480
ccgtgttccc cacttcagcc acaggggtca gggagcccca tctggcgcta aggggaactg 540
ctgggggtgtg ggtgacacct ggcctttggc gttctgcctt ggggaggttt ctggttttgt 600
tacggggtgg aagaatagga cctgggggtc tcggatgcaa cctgcagacc ccgtgggtca 660
cccaacccca ggttctgcct cccagaccag aacgggcatg gcctggtcct tggcaccgag 720
gtgcctgtct tgtaaatatc aagggtattc aactttaata ataaagcaga acttgaaaac 780
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 813
```

<210> 762

<211> 2013

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1976)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1995)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2004)

<223> n equals a,t,g, or c

<400> 762

```
gcggccgctc caacatcaga atctgagctc cgggtgacgc ggctgcggta gctgcggata 60
caagccttcc ggggtccttg cctggcgacc ccgacctcct cctgctgtct ctccgctccg 120
ccaccccgaa cccgccaaagg tctgtcctt ttctctctgt cctttgccag cgttgggccg 180
gaccggggccg agccggggccg cccggggcgca gtctttaacc atggcgctcc tcttcaagaa 240
```

513

```

gaaaaccgtg gatgatgtaa taaaggaaca gaatcgagag ttacgaggta cacagagggc 300
tataatcaga gatcgagcag ctttagagaa acaagaaaaa cagctggaat tagaaattaa 360
gaaaatggcc aagattggta ataaggaagc ttgcaaagtt ttagccaaac aacttgtgca 420
tctacggaaa cagaagacga gaacttttgc tgtaagttca aaagttactt ctatgtctac 480
acaaacaaaa gtgatgaatt cccaaatgaa gatggctgga gcaatgtcta ccacagcaaa 540
aacaatgcag gcagttaaca agaagatgga tccacaaaag acattacaaa caatgcagaa 600
tttccagaag gaaaacatga aaatggaaat gactgaagaa atgatcaatg atacacttga 660
tgacatcttt gacggttctg atgacgaaga agaaagccag gatatttgtga atcaagttct 720
tgatgaaatt ggaattgaaa tttctggaaa gatggccaaa gctccatcag ctgctcgaag 780
cttaccatct gcctctactt caaaggctac aatctcagat gaagagattg aacggcaact 840
caaggcttta ggagtagatt agtcaaaaga agtcatacta ttttgcttac ttataattat 900
gtagtataaa ccaagcacag tgcagatttc ttttacaaaa cacatgtatt ttgcaaaaaa 960
aaaaaaaaatg aagaccatga gtgaacagtt gtttcctaac ccatggctat ttagaatctt 1020
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taggagtgat gatgtgtaaa agtttgactt ctcttttgca tggcacagag aaattatatt 1140
ccttacttca tgtcagttta tgttctaaat ctttttctact gaatataaaa atcttgttaa 1200
atgccattag gcaccaactt aaagagggtt gtaaaaaat taaaagtata tcgttaattc 1260
tgtatctgtt gcttgtcttt tgtaagtgat tatgtgttat gaccataggt ggttacagct 1320
gccaaattat ttttaaattg tcaaaaagaa gagtgctatt taaacatctg tcttaaacia 1380
aaactgtcat aacttttctt ttttcttttt ccattaggag aacattctag ttggtaaatt 1440
tcaaaatgtg cttgacacct gccttaaata gcacagacct attgtgcaca tctttaaatt 1500
atttcagctg gcagaaaaga attacattta aaactgaaat caaggcctca atacaaagat 1560
tatcctggct cttttctatc tctgtgggcc taattgaaat atgtactctt attttagaca 1620
cgctctgtt aaaacagacc aggttttctt ggtctcagac ctatgatgac ttgtcccttt 1680
gatgtcacta ctgtgaattg aatataatta gtaaaaatag acgatgaata aataacactt 1740
tatagtaaga aaacaatata ttttgcccat ctaaaaatga gaattataat tatatgaatt 1800
ataatttaaa ctgtttaatt ttgtttaatg tgtatattga atcttccaaa ttgaagccat 1860
tattctcaat taagtactac aactatgaca atgcttgacc tacattttcta aaataaaaaat 1920
tcacattttt tgataaataa actacagttt taccagaaaa aaaaaaaaaa aaaaancccg 1980
ggggggggcc cggtncccat ttngnccct tgg 2013

```

<210> 763

<211> 620

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (21)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (596)

<223> n equals a,t,g, or c

<400> 763

```

cactgtgcct ggccagattt ntttttaaga gattcatcat accttgacct gtgccccatt 60
tccctcctcc acctgtctga cctggcattc ctatttcggg agaccagaag tgggggggaag 120
agaagggatg actgkttctt tgktttcacc attcctgcat gccatgcaaa ggaaggaata 180
ttgcgctttt aaatatymgt tttattaagt aagtggttac tctttcaarg aaaaaaaaaa 240

```

514

```

tgcaaatgtg  tacaaaactg  gcagtatttg  taagtgcaag  cactacacgc  tgccttggtc  300
ttttaccaat  tgcatttgca  ttttaaggta  ctacttgtag  agccatggtg  gagaacagtt  360
tggagggtcc  tctaaacact  gaaaatagag  gtgccacatg  atccagcaat  cccactgttg  420
gatatatacc  ccagaaataa  gaaatgagta  tatcgaagaa  attatctgca  ctccccatgtt  480
ggttgcacca  ctgttgacaa  tagctaagat  ttggaagcaa  cctaagtgtc  catcaacaga  540
ttaatgtatt  aaagaaaatg  tggtagatac  acacagtgga  gtattattca  gcctanaaaa  600
gaatgagatt  cagtcatttg  620

```

<210> 764

<211> 1934

<212> DNA

<213> Homo sapiens

<400> 764

```

ccatgcactc  cagcctgggt  gacgagaaag  actccgtctc  aaaaaaaaaa  aacaaactct  60
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atcttgaaga  atttggagtt  tttcagggca  attcaaatag  cctcattttt  tgttcttttt  180
gtattccaga  cagtgtttct  gtcattggat  ctctgattgg  tagtgtaaat  aaatattctt  240
tcagtgtgag  ccagattcat  aaaattaatt  ttcttcattt  tagtagtaaa  aagtagtcta  300
atagcttttt  gtcagcttga  tttttktgtg  tgtgtaatat  tcaagggcag  aatgacagga  360
cagataagca  ataagaaatg  tatagaatta  gaaaatatag  tagttccctc  ttacccatgg  420
gacatacggt  ccaagacccc  cagtgaacgt  ctgaaacat  ggatagtata  gacacctcta  480
tacactgttt  tttcctatac  atatatacct  atgataaagt  tctatttata  aatcagggac  540
agcaagagat  aaacaataac  tgcaaataga  acaattataa  cagtgcactg  taataaaaagt  600
gatgtaaaatg  tgatatgtct  gtctctttct  ctyaaaatat  cttattgtac  tgtactcacc  660
tgtaatcaga  ctgtggttga  ccgtgagtaa  ccgaaacca  cagaaagcaa  aatcgtggat  720
aagggggagac  tactctatat  gaaacttaag  ttacaaaatt  ctctgaagca  tttgaaacta  780
gacgtttttg  aattataaaa  tagtcccttt  aaaatatcca  ctagtagaaa  aaaacttcat  840
ttgcagagaa  aagattgcaa  taaaactcat  tcctaaactt  ttcaatttta  taaaattaaa  900
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tcttcagttg  gcatttattg  agagttttat  ttgaatgctt  attaaaagta  tatgatttat  1620
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tatgttttagt  acgtatacat  ttatgttcta  gtgtatcaaa  atttttcatt  ttcattaaag  1740
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ttgtaaaggg  ctgaaagtat  gatttaaaact  acagattgat  atattttaat  tctaaatgaa  1860
aggtaatgta  aataagcatg  gatctgattg  aataaagatt  ttaaaatarw  aaaaaaaaaa  1920
aaagggcggc  cgct  1934

```

<210> 765

<211> 159

<212> DNA

515

<213> Homo sapiens

<220>

<221> misc feature

<222> (152)

<223> n equals a,t,g, or c

<400> 765

```
acctggcctc tctattctct mcttcctctt tctagaattt ctattaggcg gatgttgaat 60
ctcctgaatt aatctctaata tttcttccct tccctttccc ttctccttcc cttcccttcc 120
ccttctctcc cctcccttcc cctmccctcc cntcccttc 159
```

<210> 766

<211> 436

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (414)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (426)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (436)

<223> n equals a,t,g, or c

<400> 766

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acccacgcgt cckcccagaa tactgggtcc aaatacagaa tactagggtcc aaaagggtgc 60
catgcggctg gccttcctgc tgggaaggag tctgtctgtg tgtctgtctg tgtttaggaa 120
gggagggtga ggcagggcag ggtcagagag cactgccgtg gggaggaggg tatccatttc 180
ctggtgatat ccttccattc aaagcgggta tcccagaaca ggtggccagg gacgggtgag 240
ctggggaggg ccaggagaga gatctctgct tgtgtgagaa aggatggccg agctggccta 300
gaaccgctgc tagactatct ccaaagtctt tgcagcacc cagaaggtaga ccagtgcctt 360
cagaccttcc ctgacaccta agccttggtc ctaggaaaara aaaaaaaaaa gggngggccgc 420
tctagnnggt ccaagn 436
```

<210> 767

<211> 752

<212> DNA

<213> Homo sapiens

<400> 767

```
tgcacccacg cgtccgcca cgcgtccggg tgggtaaagg gccatgagcc caaaccacta 60
ggttgttcac cttttcatct gaaaatgctt tactctgact atgtgctatt gggttttatt 120
tccagaaaat atagttctcc ttttttctgc atgaaggata catcgtggtg ccacatgctt 180
```

516

```

taagcaattt aaacaagaga gataagagga aaatgcaacc accacatctg acttgcccaa 240
tgtagacttt cctctattag attgaagtac acaacctaata atgatataatt atttttagt 300
atctcagact ttgtaaataa ataccattat ttttatatgg aaattttata gaagagctat 360
ttctgtatac gtaattactc ctgattttct gaaattgctt ctggtagata acagacaagt 420
cctaagcagt gtccactaa ggggtgggtcc aggcctgcct gccgtggagt tgactggggg 480
aattttacag ttttgcgac ctaggatgcg tcccagacgc tcagtcagaa gtgctggagg 540
tggggcctgg gaagctgtat ttgtaatgaa ctctgggtgt ttttgtccat taaagtgtat 600
ctttgtccat cctataagat taaaggaaag aaaaagcatc tcaaagtagt gtaagttgtt 660
cttgagaaaa aaatgtatca gacttttatg atttgaatga aatgtattat agaaaaaaat 720
aaacacttta aaataatgtt agtctcatta aa 752

```

<210> 768

<211> 492

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (435)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (488)

<223> n equals a,t,g, or c

<400> 768

```

gcggccgcgg ggtggcgctg caggtgggtgc gggaagccag ccaggagagc aagttgctgt 60
sggtcatccg tgagaccagg gcggcgagtg gaagcacggg cggatcatcc tgcccagcta 120
cgacatggag taccagattg tgttcgaggg agtgataggg aaaggacgtt ccggagagat 180
tgccattgat gacattcgga taagcaactga tgtcccaactg gagaactgca tggaacccat 240
ctcggctttt gcagggggca ccctcctgcc agggaccgag cccacagtgg acacgggtgcc 300
catgcagccc atcccagcct actgggtatta cgtaatggcc gccggggggcg ccgtgctggt 360
gctgggtctcc gtcgcgctgg ccctgggtgct ccaactaccac cggttccgct atgcggccaa 420
gaagaccgat cactncatca cctacaaaac cttccactac accaacgggg cccctctggc 480
ggtggaancc ca 492

```

<210> 769

<211> 1174

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

517

<400> 769

```

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agtgtgctct gagggagggt ccgagccagc cgctgttttg ccgaggagc ccctcaggcc 120
gtagtaagca ttaataatgt ctttcatctt tgagtggatc tacaatggct tcagcagtgt 180
gctccagttc ctaggactgt acaagaaaac tggaaaactt gtattcttag gtttgataa 240
tgcaggcaaa accactcttc ttcacatgct caaagatgac agattgggcc aacatgttcc 300
aacactacat ccgacatcag aagagctaac aattgctgga atgaccttta caacttttga 360
tcttggtggg cacgagcaag cacgtcgcgt ttggaaaaat tatctcccag caattaatgg 420
gattgtcttt ctggtggact gtgcagatca ttctcgcctc gtggaatcca aagttgagct 480
taatgcttta atgactgatg aaacaatatc caatgtgcca atccttatct tgggtaacaa 540
aattgacaga acagatgcaa tcagtgaaga aaaactccgt gagatatattg ggctttatgg 600
acagaccaca ggaaaggagg atgtgaccct gaaggagctg aatgctcgcc ccatggaagt 660
gttcatgtgc agtgtgtctc agaggcaagg ttacggcgag ggtttccgct ggctctccca 720
gtatattgac tgatgttttg acggtgaaaa taaaagaggt ttactttctc ggactgatcc 780
tattcacagc ttctcatga acttttctaa tagaacaagg aaagctctcc aaccatgtct 840
ggcgttgaga agccaagagt ctctgtcaac tctctcattg cccagtgggtg acatgtgctc 900
ttctccacac tgttgggagg taatgctgcc ccacgtgctg gtgcagggtc gtatcctggg 960
acttggaaagc tggcaggatt tgccgggtaa agctgtatgc catcatgggg cacctgaaaa 1020
graaaacacg tctcaccact gtggttgatt caaaagaaaag tgattctatt ttttaagaa 1080
agcgttggtta atgtaattgg tatccctcct aactttttga gttcasaatt tacttggtca 1140
gattttctat tctttttttt ttttaacta atga 1174

```

<210> 770

<211> 2468

<212> DNA

<213> Homo sapiens

<400> 770

```

gaaggaaggc atcctctttt tcacctacc agatggtagg ccaacagggg acgcttttgt 60
cctctttgcc tgtgaggaat atgcacagaa tgcgttgagg aagcataaag acttggtggg 120
taaaagatac attgaactct tcaggagcac agcagctgaa gttcagcagg tgctgaatcg 180
attctcctcg gcccctctca ttccacttcc aaccctccc attattccag tactacctca 240
gcaatttgtg cccctacaa atgttagaga ctgtatacgc cttcgaggtc ttccctatgc 300
agccacaatt gaggacatcc tggatttctt gggggagttc gccacagata ttcgactca 360
tggggttcac atggttttga atcaccaggg ccgcccatac ggagatgcct ttatccagat 420
gaagtctgcg gacagagcat ttatggctgc acagaaagtgt cataaaaaaa acatgaagga 480
cagatatgtt gaagtctttc agtgttcagc tgaggagatg aacttttgtt taatgggggg 540
cactttaaat cgaaatggct tatccccacc gccatgcctg tctcctcct cctacacatt 600
tccagctcct gctgcartta ttctacaga agctgccatt taccagcct ctgtgatttt 660
raatccacga gcaactgcagc cctccacagc gtactaccca gcaggcactc agctcttcat 720
gaactacaca gcgtactatc ccagcccccc aggttcgcct aatagtcttg gctacttccc 780
tacagctgct aatcttagcg gtgtccctcc acagcctggc acggtgggtc gaatgcaggg 840
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gttttaagtc ttggataaaa actccaccag tgtctaccat ctccaccatg aactctgtta 1260
aggaagcttc atttgytat attcccgctc ttttctcttc atttcctgt cttctgcata 1320

```

518

```

atcatgcctt cttgctaagt aattcaagca taagatcttg gaataataaa atcacaatct 1380
taggagaaaag aataaaaattg ttattttccc agtctcttgg ccatgatgat atcttatgat 1440
taaaaacaaa ttaaatttta aaacacctga agatawatta gaagaaattg tgcaccctcc 1500
acaaaacata caaagtttaa aagtttgat ctttttctca gcaggatatca gttgtaaata 1560
atgaattagg ggccaaaatg caaaacgaaa aatgaagcag ctacatgtag ttagtaattt 1620
ctagtttgaa ctgtaattga atattgtggc ttcatatgta ttattttata ttgtactttt 1680
ttcattattg atggtttgga ctttaataag agaaattcca tagtttttaa tatcccagaa 1740
gtgagacaat ttgaacagtg tattctagaa aacaatacac taactgaaca gaagtgaatg 1800
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tataaccctt taaagcatag gactatagtc agcatgctag actgagaggt aaacactgat 1920
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gcttgaatgc aatgccgtgc agatttatgw ggctgctatt tttattttct gtgcattact 2160
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aaaaaaaaa 2468

```

<210> 771

<211> 1488

<212> DNA

<213> Homo sapiens

<400> 771

```

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cagcgactgg rgccgcctgg aggcgcsatc ctcagcggct ggaagacctt ctggcagtca 120
gtgagcaagg agagggtggc gcgtacgacc tcacgggagg aggtggatga ggcggccagc 180
accctgacgc ggctgccgat tgatgtacag ctatatattt tgccttttct ttcacctcat 240
gatctgtgtc arttgggaag taaaaatcat tattggaatg aaactgtaag agatccaatt 300
ctgtggagat actttttgtt gagggatcct ccytccttgg tcttctgttg actggaagtc 360
tcttccagat ctaggaatct taaaaaagcc tatatctgag gycactgatg gtgcattttt 420
gactacatgg cagtctatag aatgtgctgt ccatacaca gaagagcttc aaaatccagc 480
cgtcctatgt atggagctgt cacttctttt ttacactccc tgatcattca gaatgaacca 540
cgatttgcta tgtttggacc aggtttggaa gaattgaata cctcttttgg gttgagcttg 600
atgtcttcag aggaactttg cccaacagct ggtttgctc agaggcagat tgatggtatt 660
ggatcaggag tcaattttca gttgaacaac caacataaat tcaacattct aatcttatat 720
tcaactacca gaaaggaaag agatagagca agggaagagc atacaagtgc agttaacaag 780
atgttcagtc gacacaatga aggtgatgat caacaaggaa gccggtacag tgtgattcca 840
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cataaaagac atgaatggca agatgaattt tctcatatta tggcaatgac agatccagcc 960
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tatttttact ctttaccata aatcaattac aagaaaagag tttcagtcct agtathtagc 1380
cccaaatga acctttaaac attttttttg taatttttat attttctgtc tttttaaaaa 1440

```

519

tatttaaattc tggaaaaaam aaaaaaaaaa aaaaaaaaaa aaaaaaaa

1488

<210> 772

<211> 547

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (352)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (534)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (535)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (546)

<223> n equals a,t,g, or c

<400> 772

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aaagcaagct atgaaatgct atatttgtag gcttaaaagt aaatttagtgt gttttcttaa 120
aaatctaaac caagattaaa atgaatatag tcatagggtat gaggggcatg taatttatct 180
tccgactgga gatacctttg agagttaaag gaggagcaat taattgttat tccaggacaa 240
cagatatataa tcgagattat actaggtgaa ctgggacata tggatcatctt tgtcatagct 300
taattcagga aaaaaggagt taggggaartc tgaargtcta actcaaagtt tngatgcttt 360
ttaagcaagt ttaggggaact tgagatgacc tgattgagac ccctaaatct acagatgagg 420
aaagcaagcc tcaagcaagg ggggcctgac ctttccctgk tccctgkgta ttccctgkctg 480
kggcaaarcc cattgccttg attctcttct ctttactttc attttgagaa gtannttctt 540
tctgcng 547

```

<210> 773

<211> 1394

<212> DNA

<213> Homo sapiens

<400> 773

```

gcaaatatag acatcatatg tagtttgtac atgtttcaga aacttgtttt ttctttgctc 60
tgtgtaacct atttcctatt gctagttcag ttggctttct tattcacttc tgtgaccctg 120
aaccagttct cagaccctag agtgtaagag cattgatttt ctacgctgtg taatctagct 180
caatccctct gtccccctccg cctcaccgtc ccccgaccac cacattgtat agcaaaagca 240
ttacattcaa tcctagaaya aaggtaaata caacaaatca tctttgcagc tggacaacta 300
ataatacttt gcagcattaa gagatcttct gtgttaccag tcactctgtt gaaatgaact 360

```

520

```

ttccgaatct ctttattcag gaaaacatgg ggttttgaaa ttcttgggcc aagagacata 420
actgaggggt tcgcagagct aggcaagggt gcactaggaa agggccacat tggtaggtgg 480
ggggtaacag agaacagatg gtgtcaggaa gtttctctgg agtaaataat gtggatattc 540
ttggtttccc tctcctccgc cagctgaagc tgtgttagtg ctgttgacac taatataaaa 600
tgtttgggtcc atttgaaatc cttgtcattg ctttatatgg gggaaactca atcccccagc 660
ctgtgtttgga aatatcacca aactgattgt aaatgtgcgg ctgtagcaga catttttagtg 720
tgggtggtgtg cagccatttc ggccctacac ctgccarcct ggctacctta cagttgtgtt 780
ccgatttttg cgtctatgct tgggtgtgct cacttgctgc attttccagc atgcaaccag 840
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caattttctc tccactgcct ggccctacct gcactcccaa agattttgtg cagatgggta 960
gttccatttt ttaaaaaattg tgcagatatg gaaaattgtg acttacttca tgaccagaac 1020
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aatcccaaag ttccaccatt tctatgctta attttaacgt ccccccgctt ttttttttgt 1260
agaaaaataa aacaagaaaa tcgttccaat gtaagatgtt tgttatagaa acttttaggca 1320
atacaggtgt gtaataaaat gtttaataaa cttctaaaca cttttgtatt tggataaaaa 1380
aaawaaaaat aaaa 1394

```

<210> 774

<211> 667

<212> DNA

<213> Homo sapiens

<400> 774

```

agtcggtccc ggagctgcct ggaggcggcc gcactcgggg atcatggccc aagttgcaat 60
gtccaccctc ccggttgaag atgaggagtc ctcggagagc aggatggtgg tgacattcct 120
catgtcagct ctcgagtcca tgtgtaaaga actggccaag tccaaagccg aagtggcctg 180
cattgcagtg tatgaaacag acgtgtttgt cgtcgggaact gaaagaggac gtgcttttgt 240
caataccaga aaggattttc aaaaagattt tgtaaaatat tgtgttgaag aagaagaaaa 300
agctgcagag atgcataaaa tgaaatctac aaccaggga aatcggatga gtgtagatgc 360
tgtagaaatt gaaacactca gaaaaacagt tgaggactat ttctgctttt gctatgggaa 420
agcttttaggc aaatccacag tggtagctgt accatatgag aagatgctgc gagaccagtc 480
ggctgtggta gtgcaggggc ttccggaagg tgttgccttt aaacaccccg agaactatga 540
tcttgcaacc ctgaaatgga ttttgagaga caaagcaggg atttcattca tcrtkaaag 600
stgaagtgtt tctccgttgt accatcacag tgatcggata attgaaatta gctacgttaa 660
tgattta 667

```

<210> 775

<211> 1610

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (465)

<223> n equals a,t,g, or c

<400> 775

```

gagagaaata gaaagaaaaa gacaaagaga agaagagagg aggaaatgga aagaagaaga 60
gaaacgaaaa aggaaagata tagaaaagct aaagaagata gacagaattc cagaaaggga 120

```

521

```

caaattaaag gatgaaccaa agattaagct gctcaagaag ccagaaaaag gagatgaaaa 180
agaattggac aaaagagaaa aagccaagaa attggacaaa gagaatctca gtgatgaaag 240
agccagtggg caaagttgta cattgcccaa gcgttctgat agcgaactta aagatgaaaa 300
accaaagaga cctgaagatg agagcggcag agactwtagg gagagggaac gggaatatga 360
acgagatcag gagcgcatac ttcgagaaaag agagaggctg aagcggcaag aagaagagcg 420
ccgtagarga aggagcgcta tgagaaagag aagactttta agagnaaaga agaagaaatg 480
raaaaagaga aagacacact tcgggataaa ggaaagaagg ctgaaagtmc agaatacaata 540
ggcagctcag aaaaaactga aaagaaagaa gaagtgggtca agagagatcg aataagaaac 600
aaggatcgtc cagcgatgca gctttaccaa ccaggagctc gaagccgaaa tcgactctgt 660
ccccctgatg acagcaccaa gtctggagat tcagcagcag aaagggaagca ggaaagtggg 720
attagccata gaaaagaagg aggagaggag tgataagtc agatggcctt aggtgtcctg 780
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atagagagaa agggagccgc tgtgctggtg gggtagactg cagaggagta agtcttgtgt 900
caaagcagga atctgatcag aggttcagaa ttggaagtac aatttcattg cttttgcaat 960
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tgcaggggga attgtcaagt gaggacttca tccatatgac cgagagaaaa gtaagagctg 1080
gttctaaaaat caaaagctgk tgktcatctg aattgaattt tctgaatttg ggtggagcag 1140
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ttgactcttg acaatccagt gtgtttgatc ttaggtctca tgatctgagt gcataccctc 1500
tccagggaagg aaactgcacc agtgtctatt cctgttaaat agcaactttt agtctcagct 1560
tgtttcgttt tgatgtcaat aaatagtaac agcaaaaaaaaa aaaaaaaaaa 1610

```

<210> 776

<211> 555

<212> DNA

<213> Homo sapiens

<400> 776

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ggcacgagga ggtaggaaa ccagttaaag ctggttgata tggaacttat ggacactatc 60
atatcaaaagt gggttggcat tttcctgggtg aaaatgacat aaataaaatt aaaagacttt 120
tttaaatgaa tgcttggaia ttgtaaaaac tgtcatttcc tctttttatt tcttaacagg 180
atggcttaaa ttccttgggtc cttgatttag attttcctgc tttgaggaaa aacaagaaca 240
tagataatctt cttaaataga tatgagaaaa ttgtgaaaaa aatcagaggt ctacagatga 300
aggcagaaga ctatgatgtt gtaaaaagtta ttggaagagg tgyttttggt gaagtgcagt 360
tggtcgtcac aaggcatcgc agaaggttta tgctatgaag cttcttagta agtttgaaat 420
gataaaaaga tcagattctg cttttttttg ggggaagaaag agatattatg gcctttgcaa 480
tagcccctgg gtggttcagc ytttttatgc ctttcaagat gataggatc tgtacakggg 540
aatggagtac atgcc 555

```

<210> 777

<211> 221

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (37)

522

<223> n equals a,t,g, or c

<400> 777

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ccctgtgcga taatattctt tcatcatttc agtgggnttt tggagggagg cggagatcca 60
ggtgatctgt ctacactatt cagtcagaaa gctggatggg ttttctcact gtttagctgt 120
gactcatact tagaaagtgg tttaaatgtg aatatccttag ttctggttgt acaattgagg 180
taatcctcaa ttcaggttgc tgtctggaca tttcatgact g 221

```

<210> 778

<211> 760

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (134)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (721)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (722)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (723)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (746)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (750)

<223> n equals a,t,g, or c

<400> 778

```

aatagagggtt aattttaccc agaagcagga tagagaaaat attacagaga aaatcacata 60
tcacatgggc tcgaaagatg tagaggtttt tgacaaatga agaacaacca taacaggtag 120
aggggaacacc atgnaaccag ggcatgaaac tgaagtgcc aacatattc tagagagaga 180
aggggtgtggg catgagtttag ggctggaaaa acaggttgga aacagataag taagggtctc 240
aaatgcaatg tcaaagagct tgcagtttat tttccaggca atgagtaggc agccaaaaaa 300
aaaaagtaag gatgtttttt ttttttttcc catggcatca tatttaagag gatggattta 360
aattgtgtga gaccaaagca tagagactag ataagaggcg atcaaaatat ttcaaaaaga 420

```


523

```

aataatgaag atccaatgaa ggaagtggaa attaaaatag ggaagagagt agatggatta 480
gagagacatt taagagatgg aatcaataga tcctgttact agataatgga agtaagaggt 540
gaggaagagt ggaaaagtca ttaatgactc taaagatttc tgcttggctg cttaccaaga 600
ttggcaacaw amsggwggga raaagggttg gaaaaagaag agaaaggata atgaagtttg 660
actttttacat agaaatgaaa gggcctttcc agatttggaa atcttttggg ttaaataatt 720
nnnaaatattt tgacctagaa aatttnggan ggaaaccttg 760

```

<210> 779

<211> 565

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (49)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (132)

<223> n equals a,t,g, or c

<400> 779

```

tttatttttaa aatattttatt ttatgtacaa aaaggtaaca tggtttctnt cattgggtgg 60
gtgccttaga taatccattc gtggaagatc acttagtcca acttaatgaa atctatatcc 120
ttcacgtatg anggaaacac tgggtggcatg taacgaggct caatttccag atcagactgt 180
gcccagtttc agcagacmca atagcaagaa ccctggctga cttttcgcgg gtggctccag 240
tagagctgct ggtgaatcat ctgtctttca ggagtgcgac agggcaaaaag gaacaataat 300
tcttcataatc catctactac agtttcaaag cacttcagtt acgcttttta aagttcatat 360
tcttccagtc ttgaccagtg ggaactgagc tcctgaatcc ttgtgatatg acctgggtatt 420
ttccatactt tccttttatga caagatgccc catccaggct cattttgtac atttctaatt 480
ccagacctag aatcagtcac cctccaagat gtccctgattc ccttttagtg aaattatttt 540
ttaacatta catattcaga caaat 565

```

<210> 780

<211> 1386

<212> DNA

<213> Homo sapiens

<400> 780

```

gctcagagga gcaatgacga ggtggccccga gaatttgtga aactcaaatac agagtctcgt 60
tccacggagg aggggagctg aacaccttcg actcctgtgc caatcaggca gcagcaattt 120
caciaaatcag ggccagtggg agttagctgt gtaaccggct taggggtcttt gcagtcaaga 180
ggctgacccc ttcagttaaa gatattttaag gaaaaatttg ggggtggtgat aatatggctt 240
ttcacagaaa grgtcatgaa gccctggccc aacaggactg tggtagtagg ggctgggatg 300
tgggggttacc acatggagag attttccatt aagagagaag gacaaacatt tctgagagt 360
tcagccattc ttggtagaca cctctccact cctcatccca cctctaccca tctccatgcc 420
acaccttatt cagtttagaca catacatacc aatcattaga agaacaagtt tagaagggtg 480
ggaacttgtg cctgggctggc tgggtagtca gctgagcctg ttgctgagcc cgggtggtctg 540
gattggagta tggccagggc aggagtacac agaatagaat ttagactgtc ccttgagtag 600
aatccactga ttttctgtgg ctccagttag aacaaggctt tgaaactgaa caagataact 660

```

524

```

tctagaaatg aactgtacta atccctttcc ccagattgta tcatgagtag aatcaggttc 720
acgtgggtgct tcaaagccct gagaagaata tttcttttga cccagggcac tagggggccac 780
ctgcctggga gtctccctgc ctcactcctc taggcagggg agtgatgctt caggacgtga 840
caggctgttc taacatgtgt ctacctgagg gctagttgaa ggatccagga gtattttctt 900
cttgggtggg ccctgaacaa agccaaaaat tgtagaaacc agtctagaaa aagtcctgct 960
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agcctggact ctgatccctc tgtacaggct ggatggaagg ggccctccac acttcctggg 1140
aggtcagaga caaactgttt cagagagtca gatggacttc ccaagacttg ttgagagatg 1200
tgacatgggt cttggatttc ctctgtagca gcctcctgga cttcctgagg actcgacatt 1260
gtccacagat gtactggcca ttacatgaaa caagaaacca agcatcttgc ygttggtaat 1320
tatatagggg ccttttttagg ggggtttaagg ccgtccgaaa aaaatcactt taggggaaaa 1380
aaaaaa 1386

```

<210> 781

<211> 1229

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (305)

<223> n equals a,t,g, or c

<400> 781

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gccacgcgt ccgcggacnc gtgggctaaa aatgccttta acattcatac tactaccatc 60
tggtaaaaggc aatctagttt tttctatcac atccacaaaa attcttctar tctctaccca 120
ttatccaatt ccaaagcctt tttcacattt taagacattt gttacagaag tacccaatcc 180
gtccagttc cacaatctgc attagattcc catggctgct gtaacaaatt accctctagc 240
ccagtggctt aaaacaatag aatttattat cttggtgttt tggaagccaa aaktccaaaa 300
ttganggggt ggccagggtg aacgtcttct ggagactcta agggaaacac tcttcccggtg 360
tcttccartt tcttgtggct gccatcattc cttggtttgt gactgcatct cctctcctc 420
tgtcttcaca tcacttcccc tctgtatata taatctacct ctgcctctct cttataagga 480
cacttgtgac gggacttagg gcccatccag attacccatg ataattccct tattccaaga 540
ttcttaatta tatctgaaag gacctttttt ccaaataagg tactatcaca gggtccaggg 600
agtaggatat tgaatatctt ttttggggag ggggcaccat gcagctcact acactattca 660
ttgcacacaa atgaattttt cactttttta gatgcattct tgggtgctcaa accagatcga 720
agtttgtctc taaaagctat tgtctgcaca ggctgctgca tgctctgttg ttaaattggat 780
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tgaccaaagt ctttctatgg ttcacagtgc aggcaaaaa ctacctctga tacagaaggg 960
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tatttcactt gcagtagaac tgtggatttg tgctgtcatt tcaccttgga ataaacacct 1140
atctctaagc aggaccaaga atgacttgca atctatatgt aatggctact tacttattca 1200
ataaagttaa gatatacggt aaaaaaaaa 1229

```

525

<210> 782
 <211> 347
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (186)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (302)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (329)
 <223> n equals a,t,g, or c

<400> 782
 tatgtaaata tgtacacaaa aattgttcct ccaaagacat ttttcagtat cttagcatat 60
 tctaaggggtg cagatgtaga attattttctc ttctctggct cagtagcatg tcagaatgga 120
 acataggtat agaatgtttt ttgtatagac aaagcttcac tttcaggggc aagggttggg 180
 aaatangctg atagtaaagt catgtaacac ttctgtgcag gttaacattt ctggaccttg 240
 ctttccttct cagtgtatgc atgagctatt yttcatgcac cactggggggg cccagtccttg 300
 gnttaatcta ccagttggaa ttttaggang gacctgggct tgtttgg 347

<210> 783
 <211> 295
 <212> DNA
 <213> Homo sapiens

<400> 783
 atttaaaaaat gcaagtgtgc tggcagaaaag gggactgatg attctgtgac tctgcagttg 60
 cagaagctcc gtgtaggaga ttattttggac atagcgatta cccctcttaa tcagggtgcca 120
 cctccttcag ggcacatgag atcatattaa attctttttg agataggggc tcactatgtt 180
 gcccaggctg gtctttaact cctgggctca agcaatcttc ccacttcagc ccgccaaagt 240
 gctgggatta caggcatgag ccaccacaac caacaagggtg ggtattaaat ctctt 295

<210> 784
 <211> 734
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (100)
 <223> n equals a,t,g, or c

526

<220>
<221> misc feature
<222> (645)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (663)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (706)
<223> n equals a,t,g, or c

<400> 784
aatcggcac gagcggcacg agttgttgcc tgggctggac gtggttttgt ctgctgcgcc 60
cgctcttcgc gctctcgttt cattttctgc agcgcgccan caggatggcc cacaagcaga 120
tctactactc ggacaagtac ttcgacgaac actacgagta ccggcatgtt atgttaccca 180
gagaactttc caaacaagta cctaaaaactc atctgatgtc tgaagaggag tggaggagac 240
ttggtgtcca acagagtcta ggctgggttc attacatgat tcatgagcca gaaccacata 300
ttcttctctt tagacgacct ctccaaaaag atcaacaaaa atgaagttta tctgggggatc 360
gtcaaatctt tttcaaatat aatgtatatg tgtatataag gtagtattca gtgaatactt 420
gagaaatgta caaatctttc atccataacct gtgcatgagc tgtattcttc acagcaacag 480
agctcagtta aatgcaactg caagtaggtt actgtaagat gtttaagata aaagttcttc 540
cagtcagttt ttctcttaag tgccctgtttg agtttactga aacagtttac ttttgttcaa 600
taaagtttgt atgttgcatt taaaaaaaaa aaaaaaaaaa agggncggcc gccccaaaag 660
ggncccagct tacgtacccg ggccatgcga cgtccaagcc cctccnaaag gggcccccaa 720
attccattcc ctgg 734

<210> 785
<211> 1311
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1265)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1291)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1310)
<223> n equals a,t,g, or c

<400> 785.

527

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ctggcccgac tactttcggt cegtcttcca tcgtttttct tcgtgcaatg gcgtccgggc 60
tggttaagatt gctgcagcag ggacatcgct gcctcctggc tccagtcgcc cccaagctgg 120
tccctccgggt tcgggggagt aagaagggat tccgcgccgc cttccgcttc cagaaggagt 180
tagagcggca gcgcctttct gcggtgcccg ccgcccgcgc tgcgccgttc agagaagccg 240
aactgggatt accatgcaga aatacaagct tttggacatc ggttacagga aaacttttcc 300
ttagatcttc tcaaaaactgc atttgttaat agctgctata ttaaaagtga ggaggccaaa 360
cgccaacaac ttgggataga gaaagaagct gttcttctga atcttaaaag taatcaagaa 420
ctatccgaac aagggacatc tttttcacag acttgcccta cacagtttct tgaagacgag 480
taccagaca tgcccactga aggcataaaa aatcttggtg actttctcac tggtgaggaa 540
gtcgtgtgtc acgtggctag aaacttggct gtggagcagt taacactgag tgaagaattc 600
ccagtgcgcc cagctgtgtt acagcagact ttctttgcag ttattggagc cctgttacag 660
agcagtggac ctgagaggac tgcacttttc atcagggact tcttaattac tcaaatgact 720
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acagtgtttt tggttttgtt tttctgaaat cttggttttg atcaaatctt tttttttttc 1260
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<210> 786

<211> 633

<212> DNA

<213> Homo sapiens

<400> 786

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acctactcct atatactgac ctgcctgtcc acgaataatk gtaarggggt tttgcmgtga 60
cagtttttac aagaattaca gtttkgtgaa gttgtgtcta aattaaagca tttcttttaga 120
acaaatggcc ttaaaattctc acggaattcc tggaaatgat tgtgaattgc cttcaataa 180
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tttgtcccaa gttgacctag ggtgactttt ataagcatga aactatttta ctggaaagaa 360
aaatatatac atccacatat ctaacagtat caatgttata taactatgta ataattgttg 420
atttttaatt atgtattaaa atctttaaat cataactatt tgctttgtac gtttcatgta 480
tgaatgacaa tagtttgatg atttccttta ctgatcttaa atatttatgc cactacagtg 540
tattacctac rgatttttaa atttagcttt atttatcaac ccaaaaaaca aataaataag 600
atcaatattc ttttcttctt gtcaaaaaaa aaa 633

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<210> 787

<211> 1017

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (235)

<223> n equals a,t,g, or c

528

<220>
 <221> misc feature
 <222> (885)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (971)
 <223> n equals a,t,g, or c

<400> 787
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 aaaaccatct tgtaagctaa atgggtcttg atccagaaag gccagatttt acctaccaag 180
 aaaaaaagat atttttccag agagttaggt atatcataat tttccatttc aagtnctttt 240
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 gaaatatattt tcagttgttt atgtcgttta ctacaaaaaa aaagnttcag agtgggatgg 900
 gagtacaact cttgrgtwtt tttctagtcc ggatttttta ttaattaatt cggtgctgcc 960
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<210> 788
 <211> 2718
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (57)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (2713)
 <223> n equals a,t,g, or c

<400> 788
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 agattggttg caagcagata tgagggatgt ggatatgtat ataaacttat ttcattgatgc 120
 ttttgacata caatatggag tagtggttat tgcctaaaa gaaggtcttg atatatctca 180
 tcttcaagga caagaagaat tattgtcatc acaagagaaa tctcctggca ccaaggatgt 240
 ggtagtaagt gtggaatata gtaaaaagtc cgatttagat acttccaaac cactcagtga 300
 aaaaccaatt acacacaaag ttgaggaaga ggatggcaag actgcaactc aaccactgtt 360

529

```

gaaaaaagaa tccaaaggcc ctattgtgcc tttaaagtga gctgaccaa agcttcttga 420
agctagtaca cagtttcaga aaaaacaagg aaagaatact attgatgtct ggtgggcttt 480
tgatgatgga ggtttgacct tattgatacc ttaccttctg acgaccaaga aaaaatggaa 540
agactgtaag atcagagtat tcattggtgg aaagataaac agaatagacc atgaccggag 600
agcgatggct actttgctta gcaagttccg gatagacttt tctgatatca tggttctagg 660
agatatcaat accaaaccaa agaaagaaaa tattatagct tttgaggaaa tcattgagcc 720
atacagactt catgaagatg ataaagagca agatattgca gataaaatga aagaagatga 780
accatggcga ataacagata atgagcttga actttataag accaagacat accggcagat 840
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<210> 789

<211> 2630

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1676)

<223> n equals a,t,g, or c

530

<400> 789

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<210> 790

<211> 309

<212> DNA

<213> Homo sapiens

531

<220>
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 <222> (307)
 <223> n equals a,t,g, or c

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 tcagttaaag gagctaaatg aggcagtagc agccttktgt ggtgaccaag aaattatgaa 180
 ggccacagra cakagtctag acccaccaat agaggaaaga gcatcatctg agaaatagca 240
 ttgaaaagct gagagcccg ctagaaactg atgagtagaa ccactctgtg tcttacaaca 300
 actgaanga 309

<210> 791
 <211> 640
 <212> DNA
 <213> Homo sapiens

<400> 791
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 ccaaggagct gctgacggcg ggaagcgacg gccgcggagg tatatgggac aggttgctca 180
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<210> 792
 <211> 590
 <212> DNA
 <213> Homo sapiens

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 <221> misc feature
 <222> (237)
 <223> n equals a,t,g, or c

<220>
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 <222> (267)
 <223> n equals a,t,g, or c

<220>
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 <222> (348)
 <223> n equals a,t,g, or c

532

<220>
 <221> misc feature
 <222> (548)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (572)
 <223> n equals a,t,g, or c

<400> 792
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 aatttatattg taggggtgtta ccattttgtta tttcaagttc ctgagaagag aattttgaaca 180
 gtttgctatt tggaaaatttt agcaaccagc taccttgcct atggaaaagat taaaaanaaa 240
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<210> 793
 <211> 459
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (41)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (441)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (447)
 <223> n equals a,t,g, or c

<400> 793
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 caaggtgcct tcctgagagg ctccgggtct agcctggcct cgggtcgggt cacggcccc 360
 gtgtccggca tcttccartt ytytgccart ctgcamgtgg gagccggatg gggcagtgcc 420
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533

<210> 794

<211> 1664

<212> DNA

<213> Homo sapiens

<400> 794

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tcccagagtct caccctccca ggcagctcct acactcaact gcttctctag gaaagggtctc 180
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<210> 795

<211> 1929

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (601)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (655)

<223> n equals a,t,g, or c

534

<400> 795

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aaaaaaaaa 1929
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<210> 796

<211> 463

<212> DNA

<213> Homo sapiens

<220>

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<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (65)

<223> n equals a,t,g, or c

<220>

535

<221> misc feature
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 <223> n equals a,t,g, or c

<220>
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 <222> (399)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (439)
 <223> n equals a,t,g, or c

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<210> 797
 <211> 1069
 <212> DNA
 <213> Homo sapiens

<400> 797
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 attatacata gcattaaaga aacatttttg agaagtamaa aaaaaaaaaa 1069

<210> 798
 <211> 869

536

<212> DNA

<213> Homo sapiens

<400> 798

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<210> 799

<211> 1158

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (336)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1153)

<223> n equals a,t,g, or c

<400> 799

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caggtacagc tccaggggca ggcagtgcc agctggacct ggtggccctt tcctagtgcc 120
tctgctgggg gaggagaacc tctgtccacg tggaggctag gaggtactac caggccctgg 180
cagcaccaga gtgtggccgg gcccagagtgt ctcccctcgg cctcagggtg gggcacttag 240
caccagaag ggaccaaaaag cagggcatgg cggtgcagag gagtttgga ggtgtaaaaca 300
gccccatgca cgtggaggag gagactgttt cagccncaga cccacgcta gcactttcca 360
cgstgcttgc ccgctgttga tgtgcagttc ccagtgcctg tgtgagccga catctgtcga 420
gtcctatccc tcgtcagcgt gtggagaccc agctcctgca gccctcctgc tcccacgccc 480
ccagacagct tgggtggaggg tcctgcatct gggccaggct ggggtgcacc cagcmaaaga 540
caaagctgcc tccacgtgcc caaggattca gatggtgcac tggccccggg aggagtctga 600
ccaaaaatgg agcccgcctc gtggggaagc cccgactccc ccacgagaaa cgggtcccacg 660
gtgcggatct ccccttccc ttgtggggca cagctggcct gggcctccaa tcctgcggag 720
ctttcctggg tgtggctttg acctcagaag tggctctggg ttggcctcag gagtgtggcc 780
tggcccagcc tgctgcagcc tcctgggggg cccttgatgc cactaatccc ccgaccccc 840
gcatctgcca aactgcacag acacacgcat tgtaaggccg cttgtggcct ccagcgtgca 900

```

537

```

ctctttgttta cgtcattgtc atcttcaaga ccagtccttt gtgattagtt ttgcttcgcg 960
agccctgggtg tggactgtgg tctgtatgaa tcgtgtgtaa ctgtggtgag gggcttgtcc 1020
tgtatgtgag tctgtaccca ggtgggggtct gtgccctgca caccgggccc ctctgtattt 1080
atcgctgcct gaatgcaaca gtaatttata tccaggacaa atacagtctg ggcgtcacta 1140
tcctaaaaaa aanaaaaa                                     1158

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<210> 800

<211> 1412

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<400> 800

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atrggtatgg taatttcaaa gtgaattggg aattcctctg gctcatagaa cccttttttt 120
tttcctttta gtattcttga gatacaaaaa aaaaaagtaa atamaatttc aaaaaaaaaa 180
ttccggatct gtttttaagc tccatctggg cctcataacc tgcaagattt ttcttaaaac 240
ctttcagctg aaagtggggg taaagggtga gtaatctgtg gatttgtttc tgttgtcttt 300
taaaatgtca aatatataat atgtaatttt tttaaaaacc accagataca gaaatgtgct 360
ttaacatcag ttgaaacctt aattttctta tgttgtgggtg attgtattaa aaagggtata 420
aagaagagtg tcaaaccatg ttaaatatat tgtactcatt tatgttgaat acgtattaaa 480
attaagacaa atggaaaatt ataccttgag tatataattt gttaaatatt actttatat 540
gtaattttat gtataatttc atatattggg aaaattcaaa actacacttg agaatttttt 600
tatcttaagt ttgggggtgaa tgggggtggat gagactgatt gaatagaaaa gggctaattg 660
cccaaaccatt atatagattt ctttttttca gtcagaggcc ttatttgata ttttataaat 720
aaatgacagt ttttattttt aaacttttta ttgttttttg gaaagtattc cttaatttaa 780
tgacacattc attcagatac ttcttatccc tgctaataaa ggaaatctat ttcaagctac 840
accattgaga ttaagtctga ggcagttcat tgaggcagct ctactataaa agcttacttg 900
ataaataatt atttttgtaa acaagttggg ttaacttatt cttcgtcttt ttgcttggat 960
atgaatttaa ggtcttcatg tttaaagaca ttactttgtt tatttagtga cacatttcca 1020
tcctattttt tttttttttt tgggtgttgt taaacagaac cttaagttta tgtttgaggt 1080
atgtactgca taggaacctt ttttattatt aaagatgaat gattaaaatt ggtatgggtc 1140
ccaatttaat ttgaaaagtg cttaccetta ttcttatata tggtttaatt ttaagggttt 1200
ttgtctcttc ttagtgcaaa actacttagc agtgacctct atctgtattc cttaggaatt 1260
agcagcttct tagtgtggat cctgcagaac ttcttaccat ttgtagtagg ttgaatcatg 1320
tcccctagaa ggtaagtcta agtcctaact tgatacacct gggaagggtg ccatatttgg 1380
aaatagtctt tacagatgtg attaggggat ct                                     1412

```

<210> 801

<211> 609

<212> DNA

<213> Homo sapiens

538

<220>
<221> misc feature
<222> (32)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (600)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (601)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (606)
<223> n equals a,t,g, or c

<400> 801
gtttatttttg gaattacaga tgcaaagtat antggaaaaag aaaatgaaam ccargagaaa 60
tattgccarg cattmcarga atamcccatc actaataact ttcctttgca aaaactgcag 120
tgtgctagcc tgttctgggg aagatatcca tgtaattgag aaaatgcatc acgtcaatat 180
gaccccagaa ttcaaggaac tttacattgt aagagaaaaac aaarcactgc aaaagaagtg 240
tgccgactat caaataaatg gtgaaatcat ctgcaaagtgt ggccaggctt ggggaacaat 300
gatggtgcac aaaggcttag atttgccttg tctcaaaata aggaattttg tagtgggtttt 360
caaaaataat tcaacaaaga aacaatacaà aaagtgggta gaattaccta tcacatttcc 420
caatcttgac tattcagaat gctgtttatt tagtgatgag gattagcact tgattgaaga 480
ttctttttaa atactatcag ttaaacattt aatatgatta tgattaatgt attcattatg 540
ctacagaact gacataagaa tcaataaaat gattgtttta ctctgmaaaa aaaaaaaaaan 600
ntatnngcc 609

<210> 802
<211> 960
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (31)
<223> n equals a,t,g, or c

<220>
<221> misc feature

539

<222> (951)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (956)

<223> n equals a,t,g, or c

<400> 802

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ccgctctaga actagtggat cccccgggct gcaggaattc ggcacgagct cttccacccc 120
tgccaggccc agcagccacc acagcgccctg cttcctcggc cctgaaatca tgcccctagg 180
tctcctgtgg ctgggcctag ccctgttggg ggctctgcat gcccaggccc aggactccac 240
ctcagacctg atcccagccc cacctctgag caagggtccct ctgcagcaga acttccagga 300
caaccaattc caggggaagt ggtatgtggg aggcctggca gggaaatgcaa ttctcagaga 360
agacaaagac ccgcaaaaga tgtatgccac catctatgag ctgaaagaag acaagagcta 420
caatgtcacc tccgtcctgt ttaggaaaaa gaagtgtgac tactggatca ggacttttgt 480
tccaggttgc cagcccgcg agttcacgct gggcaacatt aagagttacc ctggattaac 540
gagttacctc gtccgagtg tgagcaccaa ctacaaccag catgctatgg tgttcttcaa 600
gaaagtttct caaaacaggg agtacttcaa gatcaccctc tacgggagaa ccaaggagct 660
gacttcggaa ctaaaggaga acttcatccg cttctccaaa tctctgggcc tccctgaaaa 720
ccacatcgtc ttccctgtcc caatcgacca gtgtatcgac ggctgagtg acagggtgccg 780
ccagctgccg caccagcccg aacaccattg agggagctgg gagaccctcc ccacagtgcc 840
acccatgcag ctgctcccca ggccaccccg ctgatggagc cccaccttgt ctgctaaata 900
aacatgtgcc ctcaggaaaa aaaaaaaaaa aaaaaaaaaa aagggggggg nccccntccc 960

```

<210> 803

<211> 708

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (692)

<223> n equals a,t,g, or c

<400> 803

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cgagattggt gttggctgaa catcttttaa ttctgagtta ccaacacgtt gtgcgtgcat 60
tgatgacctg gcttcctggc ctgcccttgg tgctgagcc ccagtaatga ttgccctcta 120
tggtgggaga agaagggaga aagtagtaca agtagtgaag aaaaaaatgt aggtggtgtt 180
ggtggttgag agtacatggc acagaaaata aaggagccag gattacctgt gcctttggct 240
tctccttccc ctgctgcttt ttcttccttt ttccatgtca gtgcttggga accctcacaa 300
ctggcaggta acgggggtcg gataaaatgt aaacctgtgg gtgtcttctg ctgagtcatt 360
aggatctttg tagcaggctg cggataaata tgtggatgac atggggcaac taagagcccc 420
ttttgcttgc cacctccac ccctgctctg gatgggtgtc cctcttgcta gactgccggg 480
tacagatcac gtggcaatta aggcaaatgt taataaatac catgaaacag tggtttgcac 540
agtcttctga atagccatgg ctttggttar tcagcaacaa agcctttcac ccttaccctg 600
gataatcaag agttgacaac agccagaaag tactgggaat agtggctttt ggccatgaca 660
tttctcattc ttcattcatg taatgggtca antcagaagt aattctgg 708

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<210> 804

540

<211> 588
 <212> DNA
 <213> Homo sapiens

<400> 804
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 tgtatagcca cacttattct catgcacatg taattttwaa ctgtratgga tagagtttg 120
 cgttccaggg agcatcgata gcactgcac atgaccttgc tcttgtgttg cttagagatc 180
 tgccgacagc cggctcagtt ccatcttcag tcattgtgtt gcacagtgat acgatcattg 240
 ctgggtctaaa cattgccata aacatgtctg ttccccaagc tgaaaggggg tttctgattc 300
 taagggaaca aaagggttttc tggcttaaaa gacttaagac atagtcttat aatagcttct 360
 ttaaaaaattt cagtgggtta taatgcatag gggttttttaa aaagagcyaa tgtgcaatat 420
 atacaatagt ctatcctact gacccaactt ctcccttcca gttctcccta aggacaattg 480
 ttaatcagtt tcctgtawac ccttccagaa atatatgcag awgtggcawa tgtccaatta 540
 aagaaacctg atacatactg ttaaaaaaaaa aaaaaaaaaa aaactcga 588

<210> 805
 <211> 684
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (611)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (644)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (679)
 <223> n equals a,t,g, or c

<400> 805
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 gaattatgac tattcatttg ttaaaaaatac ctaagagcaa ttatagtggg acatctaagg 120
 tcctctgtaa acagtgaatt agcaaacctc agcctatgtg tttctaccct gatttttttc 180
 ttttcattggg tatctgaagc ctctaagttt tttcaaaaat ggagtatcac aaaattgagt 240
 gaaacacaat acttaatgta ttgtactaga ttgccaaatt cataaaatgt taatggaagc 300
 tttttgatgt gattataatg gcactattct ggtcattatc ctattttgat tttatttaat 360
 tttttaaagt tgaagaatta aatattttta tggttctaata cttttgcatt ccatgttgca 420
 ttaaacctgt ttatatgagt agtcttctgt tagaatcaca tctgtgcttt tcttgagtct 480
 gctgttgaac tattagatta agtcataatt cataaaattt tagtttaaat tgctctttgt 540
 aaaatgaaat tgtaaagaaa ataccagtgt ttctcatccc attgactcac accacgggtca 600
 tctgggattt ngggattccc tccakgcagc cagctawagt gggngtttcc caaaacaaca 660
 gggaatccct tcacccatng gggg 684

<210> 806

541

<211> 1204

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1033)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1050)

<223> n equals a,t,g, or c

<400> 806

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tggngctcca ccgcggtgac gaccgctcta gaactagtgg atcccccggg ctgcaggaat 60
tcggcagagg cagwgccggc gtgggcccgc ggccgagggc gaggcgcagg aagggggckg 120
cgagtcgtgc gaggtgccc ttctcactca gcattatgga tccaagcctg ttgagagaaa 180
gggagctgtt caaaaaaacga gctctttcta ctctgtagt agaaaaacgt tcagcatctt 240
ctgagtcatc atcatcatcg tcaaagaaga agaaaaacaaa ggtagaacat ggaggatcgt 300
caggctctaa acaaaattct gatcatagca atggatcatt taacttgaaa gctttgtcag 360
gaagctctgg atataagttt ggtgttcttg ctaagattgt gaattacatg aagacacggc 420
atcagcgagg agatacgcat cctctaacct tagatgaaat tttggatgaa acacaacatt 480
tagatattgg actcaagcag aaacaatggc taatgactga ggcttttagtc aacaatccca 540
aaattgaagt aatagatggg aagtatgctt tcaagcccaa gtacaacgtg agagataaga 600
aggccctact taggctctta gatcagcatg accagcgagg attaggagga attcttttag 660
aagacataga agaagcactg cccaattccc agaaagctgt caaggctttg ggggaccaga 720
tactatttgt aaatcgctcc gataagaaga aaataactttt cttcaatgat aagagctgtc 780
agttttctgt ggatgaagaa tttcagaaac tgtggaggag tgtcactgta gattccatgg 840
acgaggagaa aattgaagaa tatctgaagc gacaggggat ttcttccatg caggaatctg 900
gaccaaagaa agtggcccct attcagagaa ggaaaaagcc tgcttcacag aaaaagcgac 960
gctttaagac tcataacgaa cacttggctg gagtgctgaa ggattactct gacattactt 1020
ccagcaatag ggnacagttt tgcctgggan cagagttaca gatacacawt caagagtgkt 1080
cttgctgatg ctsggggtct gaagactgtg ctccaaccg cttcttgagg ctgaggagag 1140
gagcctttcg gtgtccgaag cagttggaag ttccagatca aggctttttg gggagatggg 1200
ccat 1204

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<210> 807

<211> 1327

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

542

<400> 807

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acggtagttt tttgttttgg ctatactaag acttggaat tattctctcc agtgtcagcg 120
aatccagaag ggtatcagat taaacaccga attcagccac tggactttta aaagtactta 180
agatggttta tctcgggttt tttcttcagt taacaaaatc ataaatatgg tgccttataa 240
catgaaagga aaattagttg tgtatttcac gacgaaagcg acggaccaa agaaatttcc 300
tgccccaaga agcatgggat ccaggaaggg gcgcgtagat gcttaacggg ctcttcggaa 360
atcctgcaaa tagaaagata attctagatc cggaatacct gtatctggtg gaaaccatgg 420
atctctacaa gctcgaatta ttcttcattg tatagcctgc tttgtaaact agtttacaat 480
ttgcaggctg atcttaagat ttttttatat ctaattgctg ctgccttcat tttaggttca 540
gcagttactt ttaactacct taatttattg ccagaaggta tgagcctaac attctgatga 600
gtccagaaaa ctacgttttg tcagtagcaa tacactagga agtaaaatat atttagaatt 660
taaacattgt gtgccagtgg tcctcgcgct tgactgcaca tcagttactt gaagagccac 720
acctcagatc aatgcagtca gaacctggga agtaggtccc agacatcagg acctttttta 780
agctcccaa gtgattctac gttccccaag tttgaggacc acttttctgt gcattggctt 840
gcacaatttg aaaataatgc ttttcctgag ctggatccca gtgttgctt aacaggggtg 900
ctgtcgtgcc gcagtagagc actgctgctt cctccaaccc caaaatttat gttcctaagt 960
aagtcaggtc cctaagcccc gtcccaagaa gtgacacaag tggccaacat ccacactgta 1020
ggcttgcaag ctaccgccc tgagatttgg taaagaacac tgccttggtc cccatcagta 1080
aacaagggtta cctacctcag gaggctgctt gtgagagagc aaatgcagta tcttcagaat 1140
gatttatattt ttaattaat tgtaaagact tgtgccattg gctgctctt ctagtccct 1200
aaatttctgt tctagtttta aatttctcta gaacttgcaa tagttggggg ttttataatg 1260
atgttttaca atgtttattt cttaataaaa aacttaaaaa ttcaaaaaaa aaaaaaaaaa 1320
aaaaaaaaa 1327
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<210> 808

<211> 685

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (598)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (601)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (613)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (651)

<223> n equals a,t,g, or c

543

<220>
 <221> misc feature
 <222> (652)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (679)
 <223> n equals a,t,g, or c

<400> 808
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 tgccagtaac tgggtgtctgg ttgattgctt gccactgcag gtgattctga attgctgtga 120
 gggcagaaca cccaaggaga caatagaaaaa tttgtttgcac agaattgactg aagagaagac 180
 gctgactgct gagggttttgg taaaactcct ccaggctgtg aagacgactt tcccaaacct 240
 gggccttctg ctagagaagt tgcagaaatc agccactttg ccaagcacca caggtcattg 300
 agaagcttgt gaaacgtgac tctggttcag gtgggtttcaa ttctctgata tcagcagttc 360
 tagaaaagca gactctctct gccacagcca tttggcaact gctgctgggtg gttcaggaga 420
 caaagacctg tccattggac ctgctcatgg aggaaatacg aaggagcctg gtgccgatgc 480
 tttcttycgg gcagtgacca cccagaaca tgccacttta gaaacaatcc tgaggcataa 540
 ccagttgatc ttggaggcca tccaacagaa gattgagtgc aagctcttta cctcgganga 600
 ngagcacctg canaaactgt gaaagagatt ctgagcattc ctctgagaca nncagccctg 660
 aaactttcct gaaaagcant gctga 685

<210> 809
 <211> 857
 <212> DNA
 <213> Homo sapiens

<400> 809
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 cagttagccg agatcgcgcc attgcactcc agcctggaca gcaagagcaa aactccgtct 120
 caaaaaacaa aaacaaaaaac aaacaaaaaaa attccccctga gagaaaacct gtctttccag 180
 ccagaggagc aggaaaaaat gaccctatgg tctgaagaat gtggaaataa tccatctttt 240
 tttctctctc tgctttctgc ctgaggggag ttcctttttg caaaatgagc aggagtgta 300
 ggcaggtaat catcagagag aaagcccatc tttctaagcc agaggatgag gaaaaggggc 360
 ccctgggtg ccaggagtc tggggggaaa tcctgaagag caaagacctg aaaagaggat 420
 tctctaattc tgtacatgag ctgaattccg tgctcagccc agagctgcac atacaagaga 480
 cagagcccag gcaacacagc cacactctga actgacactc ggaccaccac caccaaacag 540
 aaggcaacgc aggacctgca gactaaggct aacgaggctg attgcctgac aaaacagaaa 600
 aaaaagaaac attcttcagg gaatttttagc agaacacaga gtctcccaac ataaaacaga 660
 cagtctctac tgcacagcag ttcagaactg taaaaatgac cttccaacct gaaactgcca 720
 tgtgtgtgtc ataataatta atgggtaaaa ttgtgatttt tttcctgtct tttgaaaatt 780
 gtcaaaacat tgataatctt gtactgttag aaatgtataa ggaaacaata aagtaaatat 840
 ttttgtaaaa tgtaatt 857

<210> 810
 <211> 291
 <212> DNA
 <213> Homo sapiens

544

<220>
 <221> misc feature
 <222> (261)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (285)
 <223> n equals a,t,g, or c

<400> 810
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 ggtgtgggca tgctggattt tatatttcta aaaaccaata aaatttggaa ggcatcgcct 120
 ctaaagtgtta cctaaaaaat agaaaacaca accataaata tgcctagtaa ttagcacata 180
 ttttatttca tagaaactga ttcttggtg gacctggtgg ctcacacctg gtagtcccaa 240
 cactttggga ggttgaagca nggggattgc ttgaaccttt gagtncagga g 291

<210> 811
 <211> 965
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (168)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (225)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (965)
 <223> n equals a,t,g, or c

<400> 811
 tcactggaaa atgacaagat gagacttgag aaagatttat cattcaaaga cactcaatta 60
 aaagagtacg aagaactctt ggcatcagtg agagcaaata atcaccagca gcagcaagga 120
 cttcaagact caagttcaaa atgccaggca ttggaagaaa acaatctntc tcttcgacat 180
 acactatcag acatggaata cagactaaaa gaactggaat attgnaaacg taatttagag 240
 caagagaatc aaaaccttag aatgcagggt tctgagactt gcacaggccc aatggttgag 300
 gctaaaaatgg atgarattgg caaccactac acggagatgg taaaaaactt gagaatggag 360
 aaagatagag agatctgcag actgagggtcc caattaaacc agtaccataa agatgtttca 420
 aagagagaag gaagttgtag tgacttccaa tttaagcttc atgaactgac aagcttgctg 480
 gaagagaagg attccctcat aaagcgtcag tcagaggaac tctccaagtt gcggcaagaa 540
 atatattcct ctcataacca accctccact ggtggaagga ctactattac cactaaaaag 600
 tacaggacac aatatccaat cctaggcctc ctatatgatg actacgaata tataaccacca 660
 ggtagtgaac cacagactat tgtgattgag aaaacagaag acaaatacac ttgtccatga 720
 atggrtccac tttaaagtat tacaactcaa agccgttttt tttgtgtgtg tgtgtctctg 780

545

```
cattagtact ttgttat tttt tccatcacta aaggccaatc agaatttgga accatgctgc 840
taccaagaa atctaata atgaattagt tctgtagatg acaatttctt caccatttta 900
tgagacctaa atcttttcca taacactcat gtattcagta twacacatac taactggaag 960
agggn 965
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<210> 812

<211> 1561

<212> DNA

<213> Homo sapiens

<400> 812

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a 1561
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<210> 813

<211> 941

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

546

<222> (11)

<223> n equals a,t,g, or c

<400> 813

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tgggaattggc tatggataat tcatatgctt tcaatcaacg aagcacatgt aatggaattc 360
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tactacagaa ttttagagaa caaaatgtct tttatgattt caaaataatt atgaaagatg 480
aaataatccc gtgtcatcgt tgtgtgtagg cagcatgcag tgactttttc agggctatgt 540
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```

<210> 814

<211> 3692

<212> DNA

<213> Homo sapiens

<400> 814

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gccctgcccg cagcggcagg atgaatgatt tcggaatcaa gaatatggac caggtagccc 240
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```


547

```

acgagaagct gagccggggc ttacgtact attacgacaa gaacatcatc cacaagacgt 1500
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```

<210> 815

<211> 1427

<212> DNA

<213> Homo sapiens

<400> 815

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ctgtccaggc gccagctac ggcgcccggc cggctcagcag cgcggccagc gtctatgcag 180
gcgctggggg ctctggttcc cggatctccg tgctccgctc caccagcttc aggggaggca 240
tggggtccgg gggcctggcc accgggatag cggggggtct ggcaggaatg ggaggcatcc 300
agaacgagaa ggagaccatg caaagcctga acgaccgcct ggctcttac ctggacagag 360

```

548

```

tgaggagcct ggagaccgag aaccggagggc tggagagcaa aatccgggag cacttggaga 420
agaaggggacc ccaggtcaga gactggagcc attacttcaa gatcatcgag gacctgaggg 480
ctcagatctt cgcaaatact gtggacaatg cccgcacgt tctgcagatt gacaatgcc 540
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tggtgtctga gaccaatgac accaaaagtc tgaggcatta agccagcaga agcagggtac 1380
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<210> 816

<211> 425

<212> DNA

<213> Homo sapiens

<400> 816

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aagctggtac gcctgcaggt accggtccgg aattccggg tcgaccacg cgtccgctga 60
tgacaagaac gatgaaaaat gcatgaaagt tgacttagta tcttttcata ttcacctatt 120
atggttgata atgatagctc tggtagaagt gataaggatc atagtgaat acttgatgga 180
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agtcgatgat gtcataca gctaagtga gttagtagca aaagagagtg ccctgcttcc 300
ggccaaagtg aaccacgtaa tggaggaacc aatgaggaaa gcaactcatc ggggaatata 360
aacacagacc caccagctga ggattcacag aagtcttcag gagcraacca agcaaagaca 420
gacca 425

```

<210> 817

<211> 375

<212> DNA

<213> Homo sapiens

<400> 817

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cacataagaa ctttggttta gagagctttc caggtgtagt gccataaaa actgacctgg 120
aaagaaaacc tgcccagcac ggaacatgct ttctgaactc acttgagagt gtatggtgta 180
tgtcacttct catatattct tgagtttaga tttgtctttt atacaatttt tagctctttt 240
ccagttcact tgtgctcgtc tgtatattgg tattttttaa tttttgtgg aaataatgaa 300
aagagtgaaa ttatatttta taattactca tttgtagttt ttttttta ttaataaact 360
tcctccaaaa agtgc 375

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<210> 818

<211> 1216

<212> DNA

549

<213> Homo sapiens

<220>

<221> misc feature

<222> (1213)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1214)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1215)

<223> n equals a,t,g, or c

<400> 818

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acttttttatt cctccctcta cttcttttgct ttctcttttct gctctgaagc cgtggataca 120
gaaatctctg caggcaagtt gctccagagc atattgcagg acaagcctgt aacgaatagt 180
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cattagcaat atgggtacga gtaagcaatg actctcaagc aattttttggg tctgaagatg 360
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catattgaac acatttaaga tttgagggat ataagggaaa atgatatgaa tgtgtatttt 1140
tactcaaat aaaagtaact gtttacgttg aaaaaaaaaa aaagggcggc cgytytarag 1200
ayccarctta ctnnnc 1216

```

<210> 819

<211> 1304

<212> DNA

<213> Homo sapiens

<400> 819

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attgatataa gcagtattaa cacagtataa agaattgtca ccttgcatat gtcattttcag 180
gcacatggat tcaggagaag cacagttgag tggaagaaat ggtagacttg tgaggcttgc 240
cccaggcctt gtgtacacgc aataagtggg gagccatggg tctctccgtc agcgcctccc 300

```

550

```

tccccgccac cacttcaggc caacaattta aggtgctgag ttgtaaggct cctccattgt 360
cagtacaggg ctgcctttg tagccctgat cactaccagt acacttttca agacaactga 420
gtatttttgt atgcctttg cttccctttg tccatgaaac atgaagagtt gtttatgggt 480
cttgacttct ctgagcagag tgtctgcac tcttgagag ttacacattt cttcatgagc 540
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```

<210> 820

<211> 994

<212> DNA

<213> Homo sapiens

<400> 820

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gcgggccgag agactgggtc gccttggatt cctctgcct ccgaggaccc caaaagacac 60
ccccaaacccc aggccagccg gccctgctct ggcgcgtcca aaatactacc tagcacaggc 120
ctctgctcga ggcacccccca aactacctat gtatccagcc ccagagggcc tccattccca 180
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gcctgtacc tagtgccgac tgctcccagg caagtccct gctgcttaca gcccgagct 360
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taaccgaaaa taaagatgcg tggtgacaaa gaaa 994

```

<210> 821

<211> 498

<212> DNA

<213> Homo sapiens

<400> 821

```

caataggaac gtcaagtttt gcaaatcatc ctccagctgc aagacttttt ccagctaaca 60
aggaacgtga agaaatwcag actttaaaac agcaawtrgc agwtttacgg gaagatttga 120
aaagwawgga rwccaaatgg tcaagtacac acagccgtct cagaagccag atacaaatgt 180

```

551

```

tagtcagaga gaacacagac ytcgggaag aaataaaagt gatggaaaga ttccgactgg 240
atgcctggaa gagagcagaa gccatagaga gcagcctcga ggtggagaag aaggacaagc 300
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aatacaagaa aaattatctt ccaatgcaag gtaagaggct gcatgatctt tttataaaac 420
atttcagaat gtaaggaata aacaatttat acccaactta ataaaacatt tcttaataaa 480
tgtttttgaa catttgaa 498

```

<210> 822

<211> 796

<212> DNA

<213> Homo sapiens

<400> 822

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accatgatta cgccaagctc gaaattaacc ctactaaag ggaacaaaag ctggagctcc 60
accgcggtgg cggccgctct agaactagtg gatccccgg gctgcaggaa ttcsgcacgm 120
ggtrcaggta atgaatacat acatttttct gtgataaaac tcttaaaagt taattttaat 180
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gttttttact tcattatctt aatttgctt gtcactcata aaaaggaaac catacctgag 360
ttgtagacaa tgaggaaaca cttgaggctt ctgctgtgtg ttcttttggt attgttggtta 420
ttgtttgttac tcagtaactt gaatatgtt taatgtgttg taagacgtag agtttatctc 480
aagctgttaa aaatggtaat gtacaaatgt gaatagacac ttatctatat aatatgggta 540
agttttgttt cgcctataat agatgtttat aaaaacaagt gaggggacag ttgggtctttt 600
tatcttttct ttctttttct ttcttttctt tttttctttt tttttttttt tttttttttt 660
gcttccacag gttgcactat tgaaaaatcg agattgtata aacctggtaa aaagctgcaa 720
gatgccaaaa tcttgtagat gtcaataaaa aagttattat actaaaaaaaa aaaawaaaaa 780
aaaaaaaaaa aagcaa 796

```

<210> 823

<211> 503

<212> DNA

<213> Homo sapiens

<400> 823

```

aatcgctgaa ccaggagcgg agttgcagga ggagaytcac cactcacttc agcctgggtga 60
cagrgggagc tctktcttaa aaaaaaaaaa aaaatcatct gtaaaataaa ttccgggata 120
gtcgttttgt tcaaggaaat gttttgtaaa ttgagctcac actatataat ctttattgtc 180
ctatcctgat gtataatata gcagggtataa ttacaccaag cgctatagtt ataaatatgg 240
catgaagtga actatggcct tttatttcct tccagtgtga acacagcagg tgtgagatgt 300
catcttgga gacaggcctt gcagaaatag gcctacatcc aaaatattat cttgtgactc 360
catgaaccat tcattaaccc tttgtatctt tgagtgaata ttttactcaa aagttgcatc 420
tggaagtctg aagaaattac ttgaaataaa aataaagatt tctatataga taaaaaaaaa 480
aaaaaaaaatg cggccgcgaa ttc 503

```

<210> 824

<211> 588

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

552

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (555)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (560)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (570)

<223> n equals a,t,g, or c

<400> 824

```

gctggcncgc ctgcaggtac cggtcgggaa ttccccgggtc gaccacgcgc tccgtttgaa 60
tcctttatta tttttaattt tagaaatatt acagttcaca tkgcaatatt ccctttaatt 120
tactattttt aaaggggtat tgtaaatatg aaagtattta taaagtgaat tgctattttt 180
tctgttcaga aaagtacaca cttaaaattg ttattgttaa caatgtgtaa acacatttaa 240
aattgttatt gtaacaaaag aaatcatgga gaactgtaga ggttttcaca gtggatccat 300
tttctgacag ttttctacta tctattaaat catatctgct taaatatata gcttctatct 360
gtctttaaat cttctcatta aaatgtataa gcagtgaytt tgatctcaaa aataggtaat 420
tttcttttgc cgacctgtaa aagtgtgcc aataactaaa tttgtgattt taaattaaatt 480
cctccagctg ttgaaatgaa gtctgccaaa tcttgctcta acaataaaaa tgttatyttaa 540
atgaaaaaaa aaaangcgcn ttaagaccan tactcctctc acgctctt 588

```

<210> 825

<211> 965

<212> DNA

<213> Homo sapiens

<400> 825

```

tgtttttatt tttaaactat caatgttggt taaaataatc atgtacttgt tgagttcctg 60
aggtttggaa caaattacac ataaaattta gaatacttta tttctgaaaa gcatatacat 120
atatgttatg tttatttttc cttgttgatt agaaagggtga tggaaatagt gacaatgcaa 180
aatkaattga taatttttct gtattttgag tgaaagtgtg ctgtaatatg tcaagcaaga 240
atgtttataat tctacagtaa tgtgtgactt catgacagag ctacattctg agaaatttgt 300
cattaggtga tttcatcatt gtgtgaacat catgaagtgt acttacacaa acctaggtgg 360
tagagcctac tgcacacctg ggctagatgg caaagtcctgt cgcttctggg ctacagacct 420
gtacagcatg gtactgtatt gaatactgta ggcaactgta acacaatggg atctgtgtaa 480
tctaaacata gaacagataa tacattgtgc tacaatgtaa caatggctgt ggcatcacta 540
gggtgatagga atttttcagt tccattataa tcttatagga tctctgtcat atgtggtcaa 600
ttgttgatcg aaacatgact gtatgtcgta ttttcagaaa atggaatagg taatcatcac 660
ttgtgtgaat tttaatcaaa tgacttagga aagaaactgg atgtttcaaa agctgttgca 720
tttattacaa atgtcacaaa tacagctctt gccttttgag aatgttgagg agatgtcttt 780
aaaaaatatg tttgtgtgta aaaatgtgtc tgtatgcaat agctagaaaa atgcctgtgt 840
cttaagtcatt tactcatggt ctaatttttg ttctttgtac tatttatctg tatgcttggt 900

```

553

cttcagtatt tcagactcaa aataaattta tttttttatg ttaaaaaaaaa aaaaaaaaaa 960
 aaaaaa 965

<210> 826
 <211> 454
 <212> DNA
 <213> Homo sapiens

<400> 826
 agtggcaggt gtgtggccct gccctggccc cgtagtgagt gtggggccca cctgtgccct 60
 catgggcagc tgaaggggga gctttctacc ccagggttcct ttccttactg aaaagtcttg 120
 agcaaacagt tgccgctctc cccccctgc tttttaaaaa aaatTTTTTc tcacgtaaga 180
 aaatgttatc tgtgtgctgg ggaaaatttt gaaaataaca aaaaccagaa tacaaacacc 240
 cataatcaat cacagagata accactgttc ataattcctt ccagtcttct tacttggcac 300
 atatacatTTT gtctttcttt atatatgaca tatggatatt ttacaaagtt aggatcctac 360
 tctatgcact gcttgggtgat cggatctatt caatgtacaa aatattttga aagtttctgt 420
 gattaaatgt tctttgaaaa cataaaaaaa aaaa 454

<210> 827
 <211> 754
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (83)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (502)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (752)
 <223> n equals a,t,g, or c

<400> 827
 actatagggT aagctggtac gcctgcaggt accgggtccgg aattcccggg tcgaccacag 60
 cgtccggTct ttggattcta atnaactcag catcaatttc tcacctcaga ctacagtga 120
 tttttatttc ctatcagctg aaatatttca cagatggaag ctcatgtttc agttttaatg 180
 actgccttga ataaacaagt tgttgccact tgtttcaaac aaaagcctaa aaataatcta 240
 cattcaattt taggctccat tgactaatat ggtgttgctt ttggaagtac tgtatatcct 300
 cacatggaag ccaaattgtt aaattatttg aaggacacac cactgtacag aaagtagtgt 360
 ttcaaataata aatcgaagaa caaagagtgc tccaaaaaat aggtcattct tttattttca 420
 taaagtatct aaactgtact aacattcagt gttgtgtttc attctaaatt tgcagctga 480
 ataaatttat ttgcgatarg anaatatctt attattcatc ctacagaaata aaggatttga 540
 agggatagag atttatatgat aaatttatag aagactttca gaatttgaat gcattttgtt 600
 tagtgttatg aaatgacaat aggaaaaaag tctcgacttc aattttaaag ttacacaaac 660
 aaacaaatct acaggcmtgt ctttatatac cctcagggtc ttaggttttc caaaggaaat 720

554

ttgttgggat ataacttggc gggttaactc cntt

754

<210> 828

<211> 1437

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1433)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1435)

<223> n equals a,t,g, or c

<400> 828

```

aaggggagat catctgagtc caccacaccc ttgaatgttt cccgcgagac tcttcagcaa 60
cataaactgc ttaagggtgat taggaagaag cttgttcgta aaacgctgga catgatcaag 120
aagattgctg atgataaata caatgatact ttttggaag aatttggtac caacatcaag 180
cttgggtgtga ttgaagacca ctcgaatcga acacgtcttg ctaaacttct taggttccag 240
tcttctcatc atccaactga cattactagc ctagaccagt atgtggaaaag aatgaaggaa 300
aaacaagaca aaatctactt catggctggg tccagcagaa aagaggctga atcttctcca 360
tttgttgagc gacttctgaa aaagggctat gaagttatatt acctcacaga acctgtggat 420
gaatactgta ttcaggccct tcccgaatgt gatgggaaga ggttccagaa tgttgccaaag 480
gaaggagtga agttcgatga aagtgaagaa actaaggaga gtcgtgaagc agttgagaaa 540
gaattttgagc ctctgctgaa ttggatgaaa gataaagccc ttaaggacaa gattgaaaaag 600
gctgtggtgt ctcagcgcct gacagaatct ccgtgtgctt tgggtggccag ccagtacgga 660
tgggtctggca acatggagag aatcatgaaa gcacaagcgt accaaacggg caaggacatc 720
tctacaaatt actatgcgag tcagaagaaa acatttgaaa ttaatcccag acacccgctg 780
atcagagaca tgcttcgacg aattaaggaa gatgaagatg ataaaacagt tttggatctt 840
gctgtggttt tgtttgaaac agcaacgctt cggtcagggt atcttttacc agacactaaa 900
gcatatggag atagaataga aagaatgctt cgcctcagtt tgaacattga ccctgatgca 960
aaggtggaag aagagcccga agaagaacct gaagagacag cagaagacac aacagaagac 1020
acagagcaag acgaagatga agaaatggat gtgggaacag atgaagaaga agaaacagca 1080
aaggaatcta cagctgaaaa agatgaattg taaattatac tctcaccatt tggatcctgt 1140
gtggagaggg aatgtgaaat ttacatcatt tctttttggg agagacttgt tttggatgcc 1200
ccctaattcc cttctcccct gcactgtaaa atgtgggatt atgggtcaca ggaaaaagtg 1260
ggtttttttag ttgaattttt ttttaacattc ctcattgaatg taaatttgta ctatttaact 1320
gactattctt gatgtaaaaa cttgtcatgt gtataaaaaa aaaaaagatc ccaaataaaa 1380
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aananaa 1437

```

<210> 829

<211> 973

<212> DNA

<213> Homo sapiens

<400> 829

```

gtgaaacaac aacaacaaca acaaaatgta gtcttaggaa gcagcaagtt cactgacttg 60
ggatctttat gacagttttg ttgttgccat tgatattgtt ttgtttattt tttgttttca 120

```


555

```

gatgagaaag ttttctacat gttatctttt ttctaggagc tcaaagtgtg catcattcct 180
ttattatagc taggtttact gactcatata ctaaggaagt agctaaaatt ataaaaataa 240
tttgttttta aaaccatatt taactaaggg aactaagtaa gttccaatga gcagtgggtct 300
catgcragggt attttcaata ttttaaaatt tacagatgaa tttttaataa tattataaaa 360
gttttaaatca gctatctcta agaaaataca tttcttaaaag ggaaatgaaa ttcacttgac 420
tttaataaaa acaaatgaac tcatttcatg tttttaacta ttatctaact cttccttact 480
ttatgrtgct ggcaagctgt tgagagcctt gacatctcca tctgcagaaa aatcacagtc 540
ttagaaatcc tattaatcgt gtgaggtagc tgggtcatag tagcagcttc atgcagtgtt 600
aaaattatat gatgattata tgcagtaaca gatgaagaaa aaaagaaaga aagcaggaga 660
aatgcaccac ctcattcatt gtaaagtcag tatagttgat tttttaattt gttttatgtc 720
ctctagtgat ctaagcatga agcttgaatt attataataa agaaaataaa tgcaatgcag 780
ttgggggatgg caaatgttaa tgcttatctg tatcaaagac taacactgtc ttcaggatta 840
tccttgggtgg attatccttg gcagacactt aatgagcaga gagaagctac aatgttgaag 900
gacaaaagtc ctttgtcatc ttattatcga aataatgttt aatacaataa aactttttta 960
attaaaaaaaa aaa 973

```

<210> 830

<211> 814

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (619)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (789)

<223> n equals a,t,g, or c

<400> 830

```

gccattcttg aggaaatata gagatgacat gttttcacc ccaactatctg gtgctattga 60
atgactaatt cagtccctaa agttctgtga aaacacaaaa gtctaataatg ttgagtgagt 120
aaaaggtaat ggtgcatttg aacaagtaaa tgctgtcgtg gtcagcaaga tccgkgattt 180
gaacatgtga tgactggaaa aagggttggg ttatttggaa ctctggctaa aacttctttc 240
gggtgacatg tgatcgttta aatggcatta agtgaataaa gcacacagac agtgctactc 300
ttgaccacta ttttaccatt tctttgcaaa cagtgttcac attttcatat tttttcccta 360
actaaaccac caaagaaaga cattttgtat gtatatacag tgtgtgtgta tacaaaaatca 420
tgatatagta gaatgcaact actttctttt tctaccaaac gaaagggtttt atttgctgtg 480
aaataaacca gaagttaaaa aaaccctgta gtgattaagc atacttaacc actccttatt 540
tgtagattca ctttcaacct taaaaattaa taccagtttg cataaaccaa tatctgaaaa 600
gaacaggaaa tgtaaatgnc aagcaacagc tattaatact gatgtgaatg gatgcatttg 660
ttttgcagtg gtgactggcc taggcagggt tgggtagctgt gaaagaattg attcattttc 720
aaaattattc cataaagtta aaaagttaca ctttaagggc aacagggtcat acagttcttt 780
aaaatctgna tccaactgta gctttattta aaag 814

```

<210> 831

<211> 611

<212> DNA

<213> Homo sapiens

556

<220>

<221> misc feature

<222> (181)

<223> n equals a,t,g, or c

<400> 831

```

gcggaaatat tccatcagct tttcaaagcg gtgctgctcc ccacacacct gggtaagggg 60
aatggctctc actgaggccc agtgacacac gtcctaagct accttctggc tgccacacct 120
gtgcttcaac aggtcctctc ccagttaatt ctaagttgag ccacgtcact cttctgctca 180
naacctccac tccctctcaa tctcccactc tccctcactt tttccactct ggccacactg 240
gcatcctggc acattccmac ccmagggcct ttgcacttac tgttccaaact ccctggagtg 300
ccctcactcc cacaccaagt cccttgcttc cttcacagct ttgctgaaat ctcacttget 360
cagtggaggcc ttccctgacc accctgcaac caattccccc tccctctgca acattgctgg 420
cttttttctc ayagcattta tcatttccta acatactatg taatttgctt gtttattata 480
tcgtttctgt ctttccctat atggtttcct ttgttcaactg atgtgcccaa gtgccctgtt 540
cctgacacat agtaggcact caataaatat tcattaaagg aatgaatgaa tgaaaaaaaa 600
aaaaaaaaaa a 611

```

<210> 832

<211> 588

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<400> 832

```

ccaatttnca caggaaacag ctatgaccat gattacgcca agctcgaaat taaccctcac 60
taaagggaac aaaagctgga gctccaccgc ggtggcggcc gctctagaac tagtggatcc 120
cccgggctgc aggaattcct tttttttttt tttctgagac aggggtctcac tctgttgccc 180
tggctggagt gcagtgggtc aatctcagct cactgcagcc ttgagtcagg ctcagggtgat 240
tctctcacct cagcctccca agtagctggg accacaggcc cacaccacca agcccagcta 300
attttttgta tttttaagta gagacgggtt tcatcatggt atgcaggctg ctctcaaaact 360
cttgagctca agcgatctgc tggcctcagc ctcccaaagt tgggattata ggctgtgagct 420
accagatttt ttcttattaa tctaataatt ctttgtatag tcttgatatt atccataayg 480
tgtattgcaa atatcttctc taactctggc tttgactggg tatgggtgtc tttttttttg 540
gggggggggt tttgaaacag ggcttgctct gtaccacagc ggagtgtg 588

```

<210> 833

<211> 436

<212> DNA

<213> Homo sapiens

<400> 833

```

gtgagaagcc attctcttct tttactagta tgaagtcac agacgtcttc tccagcaaag 60
gaatgacacg ctggggggaa tttgacgatc tctatcgtat tagtgagctg gacaggaccc 120
agattcctat gtctgaaaaa aggaattccc aggaagacta tttatcttat cacagcaaca 180
ccctgaagcc acatgcaaag gatgaaccag actccccagt gctctataga accatgagtg 240

```

557

```

aagcagctct ggtgagaaaa aggatgaagc ctctgatgat ggacagaama gaaagacaga 300
aaaatagagc ctctattaat ggacacttct ataacatga aacatcaatt ttcattccag 360
cctttgaatc asaaactaag gtcagagtam acagtamcat gagaactgaa gaagtaataa 420
agcaacttct ccaaaa 436

```

<210> 834

<211> 1090

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (68)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (184)

<223> n equals a,t,g, or c

<400> 834

```

aattcggcac gagcctgcct tggcctttca aagtgcctggg attacaggca tgagccaccg 60
cacctggmcc ttctaacgtt ttttcatcat agtcccaaaa accaatactt tacaagtggg 120
tttggaagg caccactttt gtggcatgtt ctgggttggga gagggagtca cagttcctac 180
tcnccccacc agctatgctt ctgctctgag aaggtgggta tttatacaaa catggacata 240
ctcactccca agggctgatg agatgctgaa ttttcttttg gggcattcat taattgtccc 300
agctgcagcg actggagcaa gtctggaagc tgctgtgtct aagaccaccc agctgtccct 360
gggtttctcat cctagggcct tctttgcttc caggtcaggg gacctgcttc aatgagaaaag 420
caactgaatt gaggctagga gaggtaggga gagctgagtt ctgacttcac ctgtgcagaa 480
ctctctgccc ccatgttacc tggactggaa cagactgtga atatagcaga aggttccaag 540
aactctgggt tctgacctag aagaggcaca gttctctcta ctggaaaagaa aacgatgtag 600
ccgattgcac aagggtgcca agggaagacc caggatggcc catcaaagga acctggggga 660
ggatgcagga ggctgaaggg atgcacctgg catttctctc actgtgctct taccgcatca 720
gcaacccccca acttttgggc ctactctgcc ccccatgcgt gaataccctg cttggatgct 780
gtgcttttcc ggtttgtctc taagccccct tctccagggc atgttgggtt ccctggcctc 840
tcagtgtcct aactggagcc cagagtgcct tgttctgagc caggagacgg ctgagcactg 900
gccctccaca cctaagcgtc ctttacatta acttattggg cttgtataac acctgggtgcc 960
attgccaaag ggctgtgtcc tcagctacag agctggaatt gtgtgggggt tagtgctaaa 1020
tacttcaata aagtctgttt tttgtgattg gctgaaaaaa aaaaaaaaaa aaaaaaaaaa 1080
aaaaaaaaaa 1090

```

<210> 835

<211> 960

<212> DNA

<213> Homo sapiens

<400> 835

```

gggcactttg ggggcgggtg aattcaagac gctctggctg aagattcaga agtatctggg 60
aactctcttt tccttctggg catcctctcc tctgttctaa tcctccctta cactcattcc 120
tgggtccattg tattctgacc acatccttaw tcattggtaa aactattgag tcctggggcac 180
attgggtcatg aaggaacaag aaggcaatga gagactctca tgccaaccac tgccctgaaa 240

```

558

```

gccctgctgt tcagacagca aaggggccag cactggccaa gctcttatgc ttgctctgaa 300
accttcttgg gaggagtcaa tagggctctc ttttgaaagt gtccctggcc ttttgagaaa 360
gcagtgtggt ggagggagat ggttctggca ggggcgtgaa tggttgtttt ctacttggga 420
tttcttttct gcttttaggag atctattggg aaactgatta taaccactcg ggcaccatcg 480
atgcccacga gatgaggaca gccctcagga aggcaggttt caccctcaac agccagggtgc 540
agcagaccat tgccctgcgg tatgcgtgca gcaagctygg catcaacttt gacagcttctg 600
tggcttgtat gatccgcctg gagaccctct tcaaaactatt cagccttctg gacgaagaca 660
aggatggcat ggttcagctc tctctggccg agtggctgtg ctgcgtgttg gtctgacccg 720
gggttttcgga catcagtgac actccctgcc ccaactgctt cttcttgtca ccccttctct 780
acaattttgt gaacatttat gctccagtgg cattcactgg ttgttcatac ctttcttggc 840
ctgggtctat ttcagcagca ctgagctatg agctatgtaa gccgaccggg tgggcccagt 900
ggagggaaaag caatcaatta aagttgtgag ccagaawaaa aaaaaaaaaa aaaaaaaaaa 960

```

<210> 836

<211> 450

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (443)

<223> n equals a,t,g, or c

<400> 836

```

ggtgagccct gccacagacc tgtgtgacag cagagctggt tggctgctgt atgagtgtca 60
ccggccctgc atttttttct tttttaataa agacagagtc ttgctgtgtt acccaggctg 120
gcctccagtt cctgggggct caagtgatcc tcacacctcg gcctcctgag tgggttcagac 180
tgcaggtaga caccaacacg cctggctaata tttaaatttt ttgtaaaagt ggggtctcac 240
tgtgtcactc aggctggtct caaactcctg ggctcaaaca atccacccgc ctcggccagc 300
actttgagag gccgacatgg gtggatcacg aggttaaagag attgagacca tcctggccaa 360
catggtaaaa ccctgtctct actaaaaata ccaaaattag ctggacgtgg tgggtgggcg 420
ctgtagtccc agctactcag ganggtgagg                                     450

```

<210> 837

<211> 1144

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1123)

<223> n equals a,t,g, or c

<400> 837

```

cgccacgcg tccgagaaaa tctgcctctg tggcaacata tttccttcca ggcgttacct 60
cctgagctta gggaacaaac tgtccatgag gtcaccacag taggcactgc agaatgcagg 120
aaatggctga gcaggagtcg tactttggga gaactagaat ctctgaacac agtactgtct 180
gctttgcttg cagtatgtaa ttctgctggt gaagcttttg atacaggaaa acaaactgca 240
attatcgaag ttgtgagtca gctttgggct tttttaaaaca ttaaacaggt agcagatcaa 300
ccttatgttc aacagacatt cagcctttta cttccactgt tgggattttt cattcaaact 360
ctagatccta aactgatact tcaggcagta actttgcaga cctcgctact taaattagag 420

```

559

```
cttcctgact atgttcgttt ggcaatgttg gatTTTgtat cttcttttagg aaaactTTTT 480
atacctgaag ctatccagga cagaattctg cccaacctgt cctgtatgtt tgccttactg 540
ctagctgaca ggagttggct gctagaacaa cataccttgg aggcgtttac tcagttcgct 600
gagggaacaa atcatgaaga gatagttcca cagtgtctca gttctgaaga aactaagaac 660
aaagttgtat cttttctgga gaagactggg tttgtagatg aaactgaagc tgccaaagtg 720
gaacgtgtga aacaggaaaa aggtatTTTtC tgggaaccct ttgctaattg gactgtagaa 780
gaagcaaaaga ggtcatcttt acagccttat gcaaaaagag ctcgtcagga gttcccctgg 840
gaagaagagt acaggtcagc gctgcataca atagcagggg ctttggaagc aactgagtca 900
ctactccaaa agggtcctgc tccagcctgg ctttcaatgg aaatggaggc gctccaagaa 960
aggatggata agctaaaacg ttacatacat actctagggt gaaacttatc actaggcaga 1020
actgggtttg atgctttgtc aactgaaaaat acttatgtct gtacattttc taacagatat 1080
aaaacaaatt ttgtaaagtt raaaaaaaaa aaaaaaaaaa ttinctgcggc ccgcaaggga 1140
attc 1144
```

<210> 838

<211> 274

<212> DNA

<213> Homo sapiens

<400> 838

```
gggagcagca gctgaggcgg ggtggacgtg tgggggggtca accttatgtt tggagcactc 60
aaagaccagc catccctatc tctgtgctcc ttagcatttc ctcagaggat ctaagcgaaa 120
acagagcggg catgagaagt cagacctagg actcccaggc tgtttaccag aaatgcattt 180
catttagaag agcctgtctt agctttgttt gggtaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa 274
```

<210> 839

<211> 452

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (448)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (449)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (450)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (452)

<223> n equals a,t,g, or c

560

<400> 839

```
ggaaaaaaac agaaagggac aggtgggtga ggtacaagat gaagcaccac ttttgtgaaa 60
gtggttgaag ttgacaagga catgagggag gctgtgaaga tcaatgtcaa gtgtacgata 120
accagggtc ctcttgaaaa atccaaggggt attggccggg catggtggct caagcctgta 180
atccagtagt tttgggagggc caaggagggc ggataacctg aggttaggag ttcgagacca 240
gcctggccaa catggtgaaa ccccatctct actaaaaatg caaaaattag ccatgtgtgg 300
tgctatgctg ctgtagttcc agctactctg gaggtgagg caggagaatc gcttgaaccc 360
aggaggcgga ggttgtggtg agccaagatt gcaccactgc actccaacct ggcaacagag 420
caagactctg tctcaaaaaa aaaaaaannn an 452
```

<210> 840

<211> 489

<212> DNA

<213> Homo sapiens

<400> 840

```
aaattatata ttgataagta aatggcttgt tgcataatcc aacttttagaa tttattaact 60
ctaaagtttt tattgggttaa agccaaataa aataatataa gctcataatt ttttagattt 120
ttcatgtcct aaaatgaaca tagttgtata ctttatctca ctaggataat ttttatcttt 180
gcctatatgt gctgctggac cttgtaaaaa tatgtatact ttctagattt gtggtagaaa 240
tttagctata gaatcattta atttgcaaac tggaaatgggc attagagaat catacagttt 300
ttctttctca ttttaccggt aaaatcactg atgtctcaat ttgtgactaa tttcctaaag 360
gttgcaaagc tgrgtagata gagctagaac taaatctaga tcttttgtct tcttggtaac 420
tgataatgac atattttattc cattgattct atgacatgga cgaataaaaag ctgcttaagg 480
ccaggcgag 489
```

<210> 841

<211> 464

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (419)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (425)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (455)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (462)

<223> n equals a,t,g, or c

561

<400> 841

```

gacttcactc aaaaagtgca gaattcacat tcttttcagg aacacatgga acatttatat 60
gtggtggggac ataaaactaa tcttaataaa tctgaaacta ttttgatcac ataaagttct 120
ttcattataa agaaattcaa ttgtaaaccc aaaccagaag atatatagaa acaccataa 180
tattttggaaa tgaaacagca cacttctaaa tatcccatga atcaaagaaa aacaatcaga 240
agggaaacta ggaagatttt gaaatgaatg aaaatcaaaa tacaacacat caacatttat 300
gagatgcagc taaagcagta ctgagatgaa attttatagc actgagcagc tatattatta 360
aagaagacaa gcctcaatga tctttctggc tcaagaaaag ggaaaaagaa gggcaaacna 420
aactnaaggt aagcagaaga agaaagaaaa agtcngaaag antt 464

```

<210> 842

<211> 412

<212> DNA

<213> Homo sapiens

<400> 842

```

cctggccccgt gtcttcatcg gcatcaacga cctggagaag gagggcgccct tcgtgtactc 60
tgaccactcc cccatgcgga ccttcaacaa gtggcgccagg ktgagcccaa caatgcctac 120
gacgaggagg actgcgtgga gatggtggcc tcgggcggct ggaacgacgt ggccctgccac 180
accaccatgt acttcatgtg tgagtttgac aaggagaaca tgtgagcctc aggctggggc 240
tgcccattkg gggccccaca tgttccctgc caggtttggg cagggacaga gccagacca 300
ttgtgccagc cagggaggct gtccctttgt taagggtgga ggctcactta gtagagggct 360
gtgttctaaa ctgagaaatg gcctatgctt aaggaggaaa ttgaaagttt ct 412

```

<210> 843

<211> 565

<212> DNA

<213> Homo sapiens

<400> 843

```

gaaaaaaaaat gctaattgtga gaatataaat tgtgggaaat gagtgagggc aagggtggtac 60
ttcctccttc tgagctcttc acacgtaatg caaaaacccg gtcttaattg attttgtttt 120
ttttctgagt atgcataatg gtggttgaat gaaccaatgt gtgattgtat cttttccatt 180
atgtgactgt ttgacctgca tattaatttc aagatagcag tcaattcgat aaggcatttt 240
catagaggaa agtttacaga aacagtttat rtggttggat caccaaatta tcttaggtac 300
taaggcctca aaaataagaa aaactttatt atttctcctc agtagagttt ggacatacat 360
aaggagagaa ggtacagtga tgaaggagac cataattctg tagtgttgat gatcctggat 420
tataatcttt ttctctttat ctttcatagt ttttttaaaa acatggactg tatcttatct 480
accactatat cccaaatacc taagatagtg cttacgttca gtgactatta aataaataaa 540
tggatgaatt aaaaagtaaa aaaaa 565

```

<210> 844

<211> 571

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (254)

<223> n equals a,t,g, or c

562

<220>
 <221> misc feature
 <222> (491)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (501)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (534)
 <223> n equals a,t,g, or c

<400> 844
 agcagaacaa cacagtcctg gtggaaggct gcttctgtcc tgagggcacc atgaactacg 60
 ctcttggtt tgatgtctgc gtgaagacct gcggctgkt gggacctgac aatgtgcca 120
 gagagtttg ggagcacttc gagttcgact gcaagaactg tgtctgctg gaggtggaa 180
 gtggcatcat ctgccaaccc aagaggtgca gccagaagcc cgttaccac tgcgtggaag 240
 acggcaccta cctngccacg gaggtcaacc ctgccgacac ctgctgcaac wttaccgtyt 300
 gcaagtgcc aacaccagcct gtgcaaagag aagccctccg tgtgcccgtt gggaattcga 360
 agtggaagag caagatggtg cctggtaagt gctgtccytt ctactggtgt gaagtccaag 420
 ggggtgtgtg ttcacgggga atgctgagta ccagcccgtt tcttcagtt tatctctcca 480
 agtggccagg ncttgcgtgt nccaaggagc aaggtgggac aacaacaacc ctgnttcaac 540
 gttcattggc ctggcaaccc acgggggggg g 571

<210> 845
 <211> 678
 <212> DNA
 <213> Homo sapiens

<400> 845
 gggaagcttc cagcccaaca ttttctaaag aaccaatgaa agtgcaagac agtgatttga 60
 tcaaagcaga taacactata gaaggtgaca ataatgagca aaattatata aaggatgtga 120
 aactagagga ccatctctta gctgggtcat gcttaaagca gagtagtaaa aacattttta 180
 ctgaaagagc tgaagatcaa attaaaataa gtacaaggaa gcagaagtct gtaaaagaga 240
 tctcttcata tacaccaaag gactgtactt caagaaatgg tccagaaagg ggatgtgaca 300
 gaggaataat agtatcaaca cgtttggttg ctgattctag cactgatgct ttggaaaaag 360
 tgtccacatc gaatgaagat ttctctttta aggatgatgc tcttgctaaa acctcaaaac 420
 gaaaaactaa ggtacagaaa gatgaaatct gtgcaaagtt atcacatgta ataaaraagc 480
 aacacaggaa gagtactttg gtcgataata ctatcaattt agatgaaaat ttgactgtat 540
 ctaacattga gagtttctat tcaaggaaag atacaggagt tcagaaagga gatggtttca 600
 tacacaatct ttcttttagac cctagtgggtg ttctggatga taagaatgga gaacaaaaat 660
 ctcaaaacaa tgtattgc 678

<210> 846
 <211> 352
 <212> DNA
 <213> Homo sapiens

563

<220>
 <221> misc feature
 <222> (211)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (225)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (314)
 <223> n equals a,t,g, or c

<400> 846
 ggaaagattt aaggaaagaa aactttttcga tttcctttga aaaatagaac acaaaaactgg 60
 cttgtaaaatg tttttagaat gatgaataag tcattaatta attcagtgac gtatgttttc 120
 taggatccct ctggctgttg tgctgagaac agaaggggtc aaggagtggt gggagtaaaa 180
 atggaagcag ggtgcgcag cggagtcaga naaaatgggtg tttnttaggt ggacacaagg 240
 aaggaaagat gattgatttt tgagaagcta aaattgtgtg gtaagtggat agtagcaaat 300
 atcccagttt gctncatgaa gcaatacata tgttgaaacg gaaacgttgc ta 352

<210> 847
 <211> 890
 <212> DNA
 <213> Homo sapiens

<400> 847
 ctctttttgca gcttgtgatt tcttccagct tgggaggggc tgctggaagt ggcattttcgt 60
 tcagagctga ctttcagtg cccaaactg gatgacgtgc caatgtccat ttgccttatg 120
 ctttgtggag ctgattaggc tgggatttga ggtgataatc cagtaagtct ttcctcggtc 180
 ctacttgtgg aggatcagta gctgttatga tgccagacca tttggagaag tatcagaggc 240
 ctgaccggac acataatacg acaaccacat ttttctcat catccatgag gaaatggatg 300
 atttctcttt tccatatgtc actgggggaa aggtgcctg tacctctcaa gctttgcatt 360
 ttactggaaa ctgaggcgtc aagatggctg tggcagctag caaaagcaaa gatgctttgt 420
 gcatagcctt gtgaaaaagt atctttctat gcaataagat gaattttcct ccagaatat 480
 ttagaaatgt agaagggata acagttcaca gccaggtaaa atttaactgg tggcttaatg 540
 actctgcacc tttttctcag gaattctgcc taagttgtct gccttttcta ccacaaaaaa 600
 gacttttagt tttctatgct ttctcctgaa ttttggtagg gtaaggattt tctatgtcaa 660
 agcacagcct tgatgatctc agggaaaaat tttaatcact gtgtataatg atactgaacc 720
 ttgattaata acagaaattc aggatgtaaa gccacagaat gggattttatt aatgtgggat 780
 acctcagact gtttgttttc tttctgggaa gaaaagtgtg ttctataatg aataaatata 840
 gagtggtttt taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 890

<210> 848
 <211> 591
 <212> DNA
 <213> Homo sapiens

<220>

564

<221> misc feature
 <222> (132)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (542)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (550)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (579)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (590)
 <223> n equals a,t,g, or c

<400> 848
 cgccgtgtcc aacaggagat cgacgacgtg atagggcagg tgcggcgacc agagatgggt 60
 gaccaggctc acatgcccta caccactgcc gtgattcatg aggtgcagcg ctttggggac 120
 atcgtcccct gnggtgtgac ccatatgaca tcccgtgaca tcgaagtaca gggcttccgc 180
 atccctaagg gaacgacact catcaccaac ctgtcatcgg tgctgaagga tgaggccgtc 240
 tgggagaaag ccttccgctt ccaccccgaa cacttcctgg atgcccgagg ccactttgtg 300
 aagccggagg ccttcctgcc tttctcagca ggccgcccgtg catgcctcgg ggagcccctg 360
 gccgcgatgg agctcttctt cttcttcacc tccctgctgc agcaattcag cttctcgggtg 420
 cccactggac agccccggcc cagccaccat ggtgtctttg ctttctcggg gagcccatcc 480
 ccctatgagc tttgtgtgtg gccccgtaga atgggggtacc tagttcccag cctgctccct 540
 anccagaggn tctaaatgta caataaagca atgtggggang ttcaaaaaan a 591

<210> 849
 <211> 448
 <212> DNA
 <213> Homo sapiens

<400> 849
 gcgcaggctt ctttcagtc ctggatggcg agcgcagccc ctgggaggcc acacttagtt 60
 ctttattgtg aatctctcgc tactcaagtt cgttcgggac cagggcctcg gatggcctcg 120
 gttgcccgta agtacgcgaa agaagagggtg aatccaatcg ctggcctaga ggatagtgat 180
 cagacaaccc gaggattact aaacaagggg cggcggtgtc cctgtctcat ggggttggcg 240
 tggggcgggg ggtaggcagc aagatcctcc aggtccttg atgcaaagag tgagaaagaa 300
 agcgcagcct ctggcagcct gcttataaat gcagcctttc ggaagatgaa acttgcagtc 360
 ttaggttgtc ctctttata tccatgttcc aatcctctg gctttcctcg aaatgaataa 420
 aattgtggaa atgaaaaaaa aaaaaaaa 448

565

<210> 850
<211> 536
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (496)
<223> n equals a,t,g, or c

<400> 850
gcggccgcct actactacta aattcgcgkc cgctcgwcaa atggctggta agcaggccgt 60
ttcagsatca ggcaagtggc tggatgggat tcgaaaatgg tattacaatg ctgcaggatt 120
caataaaactg gggttaatgc gagatgatac aatatacgag gatgaagatg taaaagaagc 180
cataagaaga cttcctgaga acctttataa tgacaggatg tttcgcatta agagggcact 240
ggacctgaac ttgaagcatc agatcttgcc taaagagcag tggaccaaat atgaagagga 300
aaattttctac cttgaaccgt atctgaaaga gggtattcgg gaaagaaaag aaagagaaga 360
atgggcaaaag aagtaatcat gtagttgaag tctgtggatg cagctgttat gaagatgggt 420
aaacttgaaa caaacaattt taagaattat ttggtctgaa gatgtyttac tttaaataaa 480
tgtctattgt aawggnaaaa aaaaaaaggg sggccgcyct araggatcca agctta 536

<210> 851
<211> 383
<212> DNA
<213> Homo sapiens

<400> 851
acttataatc caaaagacca ccaggatgac taaatagtag aaagaagagc tttattgggtg 60
atatcagttg caagctggaa gagaaagtct ccagcatgga ccaaagatgc tctctcttca 120
aacaggggaa ggacagggttg ggtctcattc ctctgagagt ctgtattaca caatagagtc 180
atacgtattc agcagggttg gggtagaagc tatacatatt tatgaggaga gccaagcaca 240
ggagcaatga ataaacaaac atgtaataata catcccatat tcactttggg gcaaaagggtg 300
aactatagga cacaaagaca gtgtgtgtgc agcctctata agctggctga aactggctta 360
aggctctgcaa ttgctcatca gaa 383

<210> 852
<211> 644
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (280)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (527)
<223> n equals a,t,g, or c

<220>

566

<221> misc feature

<222> (642)

<223> n equals a,t,g, or c

<400> 852

```

gctttacctg agctttgacc tgcgtagcaa tatgttgatt ttttaaggat gttttgtaaa 60
ttaaaaaaat gctattataa aataatgact ttgaagagat ggtaatatatt ctattgaaca 120
tattaatgga ccaactgctat catgtagttt ttaatttaga aggctcaatt ttagttttta 180
ttagaaagaa tattgttttag tatcaaatga ctattaaaag tatatagtgc aataaaaaaga 240
aagacgtgaa ggaatgtgga amcattaaaa caaaatcgan cctccttaag tagtagttat 300
atcagatgta attaaaagat gggatgtaat ttgactatca aatacttgaa ccaatgcttt 360
tatttgtaat atatatatgt gtatatatgt ttttgattac caatattaaa cmcaaagtga 420
aacmctattg atttgaaagca ctggccatt taaaaataat ttaaattgggt accccagaac 480
cttgtcgtaa ttttattggg gatttttgta caatatatag ccctagnntc gtctccaacg 540
ttctcacctt taagaaagca tttacatttc ctatcctctc ccaactggga gaatatgcaa 600
atattataaa ataaaattct ctttttagaaa ttaacaaaaa gnaa 644

```

<210> 853

<211> 527

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (440)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (449)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (521)

<223> n equals a,t,g, or c

<400> 853

```

tttttttttt tttttttttt tttttttttt tttttttttt taacaaatgt ycagttttwt 60
tcattacaaa tattaacatc atttttcttt tatttatcct ttatgcatca ttttatacat 120
tcacacacac aaagaacatt aaaaatatat ccaattattc aattttgggt gaattttcat 180
taaaataagt gttaaaaaata tttatttggt ttctgttttg agaaggcttt tattgttgta 240
ctccrgagtg ttattttctgg agacaaagt gctgtgctt taatagggag attcctggga 300
gaatctaaac cataagcaac aaaattttta gttaataaat tcaagacaaa gcagaaaagta 360
tagatttgct ttcagcattc ccgagggtgt tagattttta ttagtcacct aattaamata 420
ttgttccaat aattgggtcn ttctctcng aaaataagca gaaactcata cttacaccaa 480
aacacttcca taattttctt acacctaagg gtttatcctc nggaatg 527

```

<210> 854

<211> 513

<212> DNA

567

<213> Homo sapiens

<400> 854

```

aaaaaaaaa acaatgaaag tagcctccac ttacaaacta attactcttt cttgaaaata 60
ttacactttt tttcttctat atctctactc ctagctctca acacctttct taagcccaca 120
tcataacctg tcttgcataa ctttgtgagt gcccacggtt tcaactgtaca agattgtaga 180
gctgcatgct tcttaagaat aaatccacac tttagggtacc agtaaatacca tgcaatgcct 240
cagacgttat aaccaaataa tgcctggaaa atcgacatga atttatgtga agcataagcc 300
tttaattttt tttaaagaaaa gtagattgct gtttttccac atcatttcag agccgttctc 360
tagttttgca tgccctttac tgcagaacca tacagatttt gttctccatt tcatacatca 420
tttgttgaaa tgccctttta aatgtaacgg aatatagagc tttatgggaa aaaatgctgt 480
agaaaataaa ttatcttctc tctttgtatt ggg 513

```

<210> 855

<211> 434

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (430)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (432)

<223> n equals a,t,g, or c

<400> 855

```

gtcttcayct ccgtatcttg ccttatgttt ttatgcattt caaggtagca gacatcagta 60
cattttacac ctagattcgt ttacatgcat agcattagag ttcaatagtt gcttactgta 120
tttaggtaaa cttttcatac agtgaaacgc aaaatctcaa atgtaccttt caatgaattt 180
tgatgcatgt acacaccttt ataactcaaa tcaactatsca gatgtagaac atgaccatca 240
caccagaggg cctcctgccc cttctcagtt gattcttaata tccactcccg aaagcaacca 300
cagttctgat ttttttcacc atagattggg ttgactaact ttttgaactt catataaatg 360
gaatcaaaca gtatgtactg cttcacataa ggcttctctc actcagcata atgttttttga 420
gatccgttgn gntg 434

```

<210> 856

<211> 1432

<212> DNA

<213> Homo sapiens

<400> 856

```

gcaatgctat cggtttttgac aggaagcacg atggtaagaa taccactaac gaaaaccttt 60
gtgggtgtctc aatgacaaat atgcagatgc caccctcctt tgtctaattgt acggtgcttt 120
agggcaacta tttaataata agcaactcag aacttggtttc aggaagtgtt gctctttcgc 180
cttacatgcc aagggttctag ggaaaaagct gaccatatgt aaaaacattg atgctcaagc 240
acataaagaa ttcattcttt aaacatagag tacataggrt caagtctctg cacaataatt 300
gagatgtgtt ataggggaaag tgagccagtg ctattgtyca cttagtcttg gtgaatgtgc 360
agtaggctca cccctaagga atctcatggt gcctgcagta aaaataaaaa tggactgcta 420

```

568

```

caatgacata ctgagagagt tttaaactcat gctttacaaa ctgacattct gagctctgag 480
acagcagaaa atgtatcacc agagcaaggg aggaggcaaa tgttctgaac aataattgaa 540
atggttgtga ttttatttgg agttggcaca gatccaagtg accaaaggag ttcaaggccc 600
aaaatttagt tatgctggat taattctgag agtaacaagc acatagatta taatctaaga 660
aaaccctttg tagctatgca tgtcgggaga gcactaaca ctaatggtga tgtttcccat 720
gcagagactc agattacagt gactcttcca gtgaagacag atgaaagcca ttgggcattg 780
tacctttgtt aatcaagcta aactaacc aa gatatagggt gtgtgtatgt gtctgtgtgt 840
gtgtgtttgt gtgtgtgtac acatacatct atagggtatga atgagacaaa aagctgctga 900
cttacagctt aggaaatgca aagtcaagtt tttcttttca ccctgaggca ctcagtgcac 960
aaagggtcaa gttttaaaac taagaatgtt tccaaaagac cagcaatgtt aaaagagtat 1020
ttcgtgtata ctgacgtgc ctttaagcaa taaaaattcc aagagctgat cattattgtg 1080
cttccatttt agaaaagttt atttagtaac aaacttccca gtgtaggagg gtttttccct 1140
gcccttttga acatgttagg ttatttttct cctatcctgg ggccttacca atgtgtaatg 1200
ctttcaaagt ttctatgaag cctgtgtgga ttctatttta gcttatttat atattctcat 1260
ttattttgaa ggatattata ctttaatttg ttccagagtag tcgccagggt ttgcacctga 1320
caatggcaca tattttttgt ataacttttt ctaggctcct acccttttcc acactttaca 1380
tttgtacagt gaaagcaact gccagtggag gcctgaaatg tccccaaaaa aa 1432

```

<210> 857

<211> 1140

<212> DNA

<213> Homo sapiens

<400> 857

```

ctttggggaa tctggagtag aggcctctcc gccctgacc accgaaacgt gcaggcattc 60
tactcacac tgggcagccc gctgtcgggt ctctctaggc ctatgaacca caaagcaggg 120
aagtgggcac gttctctcgg ggtggtctac agctttgaac ctgccaaagg acccctcgac 180
tgccacagc ccagcccagc ctgacgtgga tgtggctgcc caggaaaaga ctttaactgtg 240
aaaaagtact gagaaccac ctgaccagc cttgcccaca gcagaggcta gagaagaggc 300
tcctcttctc agtgtttccc aaaggggagg ctctgtgtgt ttcaaaatct ctggcaccat 360
cttgacctct tggctctctc tgcactttgc cccctgtctc aaaaatgtcc ctcatgtcca 420
tttctgtcc aggagactca tgaggactgt gtgacctgca caagcccaca cctgggcagg 480
ctgttggtgt ctctctctag gcagagcgtt cctggccaga gctctacctc tttgcctcct 600
ctgacacctt gacagcgtcc cgtrgcattt ctttcatgtc tgcataattg atagccttgt 660
cctcctgtgt gcctgagctc ctcccttttc aataagatta ttagtcgtgc atgtctgtga 720
gctgcctttc atcaccattt ttcttgagta gggcttagtt ttattctgga aagacatctc 780
caaggtgagg tccaccccca cagcagacct caagtagaaa ttgcccattt tttaccagct 840
ggaggacac ccttgggttt ttgtacgaag ctatttaaat agcctgtgtc ttggggactc 900
agcaggctgg agcttggggc ctgggtggac atcacctggg gtctgtagggt ggaccgggtc 960
tcccacaggt gacatcaacc tgagggtggc gtcttttagag acaggcacat gggcagctct 1020
gttcccttcg cctctactgc gaggcctggg gagatgttgt tttcatgctg cttccaccat 1080
cacactgggg tttctggatg ggaaataaaa aaataaaggc agttcatttc cccaaaaaaa 1140

```

<210> 858

<211> 532

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

569

<222> (365)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (372)

<223> n equals a,t,g, or c

<400> 858

```

ttggaacgcc cgcgtccgct tgtatcaaaa ggtccagacc taaggggaaa ttttatctct 60
ttctttcttt ctttcttttt ttttgacaca gagttttgct cttgttgccc aggctggagt 120
gcaatgacac gatctcgggt cactgcaacc tctgcctcct gggttcaagc gattctcctg 180
cctcagcctc ccgagtagct gggattacag gcgcccgcca tcacgcccgg gtaatttttt 240
tgtattgttg gtagagacgg tgattcacta tgttggccag gctagtcacg aactcctgac 300
ctcgtgatcc gcccacctcg gcctccaaag tgctgggatt acaggtgtga accaccgtgc 360
ccggnctctt tntattaatt cctaaaatat taccttgagg ccaaattctg cgcttaagga 420
gaatgtgcac caagtgtcgg ggtgggggct ggttataaac gaggccacaa atcatgcttg 480
ttaataaatt gtgtgggttca aatctgaaaa aaaaaaaaaa caaaagagtt tt 532

```

<210> 859

<211> 391

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (357)

<223> n equals a,t,g, or c

<400> 859

```

ggctttattc agaggtcaaa cttccttnaa naccagaaaa ttcatactga agagaagctc 60
tatgaatgta gtcagtatgg gagagatttt aactcaacta caaacgttaa aaataatcaa 120
agggttcacc aagagggact ctcccttgagt aaggcccca tacatttggg tgagaggtct 180
gtagataagg gggaacacac aggtaactta taaaataatt actttcccgcc ccagtgcagt 240
atgtttggaa atgcgtggaa ttaggattca tgtggtttct aagatttgga catgtcagaa 300
ttttgtgagt catggatggg gctgcttttg cagcgggtgc cacctgccac tgtgcanccc 360
tactcggctc agcccttctc ctcagctgtg a 391

```

<210> 860

<211> 567

<212> DNA

570

<213> Homo sapiens

<220>

<221> misc feature

<222> (501)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (509)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (517)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (536)

<223> n equals a,t,g, or c

<400> 860

```

gtcctattcc tcgtggcagc ccaagccagc tgctggcccg gaggggagct taccttctca 60
aagaggccca ggagttttat agcctccttg aaacctttgt ttctatggac agaaagttca 120
tgatgcagat gctaagtttc tcttaacctg tttcttttta ttacctttg ccattctgga 180
tgaaaaatgct gatcgttggg cactttctag caagaacggc ccttgtacct ttgaccata 240
aaacaagact gttatcattt atagacactt ccattaaaaa aagatttaag gaccgggcac 300
ggtggctcac gcccgtaatc ccagcacttt gggaggctga ggcgggtgga tcacctgagg 360
ttgggagttc gagaccagcc tgaccaacat ggagaaaccc cgtctctact aaaaaattag 420
ccaggcatgg tggcgcatgc ctgtaatccc agctactcaa gaagctgagg caggagaatc 480
acttgaaccc gggaggcgga ngttgcgng agctganatt gcaccaccga ctccancctg 540
ggcaacaaga gtgaaactcc gcttaaa 567

```

<210> 861

<211> 664

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (39)

<223> n equals a,t,g, or c

<400> 861

```

accattatt gagaatacac ctgaggagaa gacctcaang atagwatggc tcatgcaatg 60
aatgaatacc cagactcctg tgcagtactg gtcagacgtc atggagtata tgtgtggggg 120
aaacatggga gaaggccaaa accatgtgtg agtgttatga ctatttattt gatattgccg 180
tatcaatgaa gaaagtagga cttgatcctt cacagctccc agttggagaa aatggaattg 240
tctaagccaa aagaaagtct aattatatac agagataaag ctaaactgaa ttattattta 300
aatgaaagct attttttttaa atgaattgaa atttttcatg atgctactaa tttgccacta 360

```


571

```

aataactgcaa atgggtcaccc tgaatctctt ctgacattgg atggttatttg cttatatattct 420
tataaatttta aatgaggggca cagtgaaatg aaaattttat actctatggt tctggtttatt 480
tttaaatect taacagcaaaa atatttgctt ttaatttctt ttttatatat actctcagag 540
aattcctctt aattttttaa gatgctgggtg ataataaaat tcattagaaa atttcctcat 600
tgtggaatga gcattctctt gttttaatgt tgggtgtcaga aaataaatat gaaacattaa 660
gtcc 664

```

<210> 862

<211> 803

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (705)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (754)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (761)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (768)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (791)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (796)

<223> n equals a,t,g, or c

<400> 862

```

gctagaatct cagtcttatt ttaactactg attttgattt cccctaatat caatttttaa 60
aactgctaag ggaaaatgaa atactagaca tgagattttt tttctcttta ttttcaccca 120
acaaaccatt tggaatcagg tataaagggg atcaatcagg aaaaaacaga aggccaggag 180
acagagccca ataagggaga cccatcccag ggagcctggg agtcagcggg cctggatgca 240
cctcccagtt ctgcctctta ttagccagct gtgtgttaac ccctcatctg gtttgctcaa 300
ggtaacatga ccatcacaaa agcaacagaa acagattatt tactttcaga ttaacttgty 360
aaaatgacaa gttgaatatt gtcatctcag tattcaagtt gaatactatc aattcaatat 420
tcaagttgaa tattgkcaca agttgaaaga ttaacttgty aaaatgacag ttggttgaat 480

```

572

```

attggtatatt tctgcctcca attgttgcatt ttgttatattg caacttttta tgcaccataa 540
aagcatttttt gtttttgtttt aaaagcattt gttttaacgc accttacaag catttttgtt 600
ttgttttaaaa agcgtttgtt tacaaatttg tgttttgtga cttctgggat gatttaacaa 660
cttttaaatgt accttaatac ttctctgtta gcttttgaga ttaanaacta ttctaattgca 720
atttagccat tatgaaaatt gatgatatta gtanaggtaa nagatatnga atagaagtta 780
aataagccaa ngactntaag aga 803

```

<210> 863

<211> 633

<212> DNA

<213> Homo sapiens

<400> 863

```

gactggctta gagacattgg gcagccaaca tctgtatttc ctcgtcagga agtgggcatg 60
gcgttgttgg gagattaaac ggggtgtggg tgaagatcca gtgagcgttt ccagctgtgt 120
tgtagatgta aacctagcag ttaatgtggc aggctgtgtc tcatgcctgc tgagcaactg 180
ctggcttccc cgtcattctg tcctcttgga wttctctgaa ttcatttagg cctttattta 240
atccttgcac agtgctcccc tgcccaaat gctcttcccc attggtcttt tttaacctgt 300
atcttaacta ttcttccttg gccgttagct ggcaacttaag ggacacttag cctcctgttg 360
aggctaagga ttactagagg aggagaactt cagagtagca aataatcaga cctccatcca 420
ggaagatgga cgtgggtggg ctgacatggg agcctagtat tttraaagct ccttaggtga 480
ttctaattgtc agcagggctg aaaatcccc tccttaagca catggggcact tagggagggg 540
tctagggttac attgtggcca agtctgcagt ttacagttct ggacaagaac cccaaccccc 600
aatttatgct atggtgatag ctgtgctctg gtt 633

```

<210> 864

<211> 507

<212> DNA

<213> Homo sapiens

<400> 864

```

tcaagggtca cacagggtta agttcagtaa gctgtgatcg tgacatgcct ccagcctggg 60
tgaccgagtg agactgtttc taaaaataaa aacaaaaaat aaattttctt ttgaggtggg 120
gtggaggtgg ggagcaagaa tttgacctgg ctctgatccc tgggtgtgtt tgtgggcctc 180
tttaacgttt gccactgagc cttaacctca ctgtacttca ctgtacttca cacgcattgg 240
tgttaacatt ttaatcttag aagaccctga cccactgagg gtttgttgtg agaattgctg 300
aagccacgta gaagcacctt gaaatctgta aaaccacaag aaagtacttt ataaaaggta 360
tccttatattg aagtggataa atcttgtaac tcgaaaagtt gtgatttaga agacaggatt 420
gtttttgaac attaggaatt aaaggctata tctggtcctt aaaaaaaaaa aaaaaaaaaa 480
aaaaaaaaaa aaaaaaaaaa aaaaaaa 507

```

<210> 865

<211> 304

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (302)

<223> n equals a,t,g, or c

573

<400> 865

```

gcataatattg atacaaccat atggttttcc tgcttactta ataatttaca gaatatcacc 60
aattcctggt aaactactct tatatttctg ggctaaccac tgcttgatcat agtgtgttta 120
ctcttttaaat tttcaacttg ctttgacttg ccgagatttt gtttaggatt attttaaatg 180
tattcaaaaag tatggttgcc ctttagatct ttgggggggtg ctgtcttgaa cagtttttagt 240
aatagagcaa ctttttattt tttaatagaa ctgctattta atttttattt ctttaattggc 300
angt 304

```

<210> 866

<211> 1711

<212> DNA

<213> Homo sapiens

<400> 866

```

acctctattc ttgatgacct ttttaaaagt catggaacag tcccacacaa ctgccaaaga 60
aagttctttc agggcccatg gaaaaagcaa aacagagacc aaaagatttc tgggacatct 120
tgaatgagca gaatgatgag agtcttagta aactcacaga cttggcagta atagagactc 180
tgtgtgaaaa agcacctcta gcagcacctt ttaaaaggag agaagagcca gcaacttctc 240
tttggaatc aaatgagaaa tttttatgga agaaatttag cccaagtgat acagatgaaa 300
acgcaaccaa tacacagagt accacataag catataaatg aattactgca ccagtaaaact 360
gctgccatca ctgtttacgg cactggattc cacactgatt ctattatctt gaacacagtt 420
gttgacatat atttttatta aattattgct ttaggatttt ttgaagtcta aagtattgtc 480
atggatctgt tttctttgat atttgatttg atctttcaag aatatgattg gatttatagt 540
ataaacctct gttatgaatt agaaaagatt ctaggtttgt taataggaga cctgggacat 600
ctttcttact atattacata atgatgtgac acttgccccg gtgagcattg tttcccagta 660
tgaaagatga agagtctgta ccgaatcagc atgagtgtcc ttccagttta aaaaagcttt 720
cttcgctctc ctaatggctc ataggctgaa tcatgtctgc cctcaaate aggtgtatac 780
caatgtgttt tttactagca cttgggaaag ttattaagta tttctttttt ccctgggcat 840
catgttctat tattatttta gaaaaaagtc ataattggta ctgaatatat ggtatatata 900
atattaaaaat ggtaattttg caacagctca aaattaaaag gttaatgtta tacactttac 960
tatatgagct gtgattacta ccattagcca cagataccag tgccctcaact ttttatgtac 1020
ctattgtgat ttaatgtaaa taaaggtttg tatagtactt ttgtagtctt taagtatgaa 1080
gaaatgggta aactttttat tttgttagaa actgttataat tttgagtgtat atatttatgg 1140
tttatagcaa aatgaatgtg cttattgttg aatgcatgta tttagaagcc tttactcagc 1200
ccctgtgttc tgtgctagga gcttgagctc tacaggtaag gcagagctac cgggtgaatga 1260
aaggaaatca tgtcagtga aaatcatggt ggaaagcccc tggcatcaca tgtgcatgct 1320
gtaggcagga cctgagctgc ctccgctgca ggttcagatg caccgctgca gctgtccttc 1380
agtttagttc cagggctgca agaggaggac acatccctcc agaaaacagc ctgagccggg 1440
aactggctgt gctaaagagc actgctatca agttgaggag agagggcttc cgtgtactca 1500
ggatgtagag tcattgctca gaagtgaaca aaaaatcaaa aacaaaagtc ttctcaaggg 1560
actgatcggc caagtatgct tttctttaga gcaatgtttt gccctagaga attgtaaaat 1620
ttatgtcatg actcagtaca tatgtgttcg tacatatatg attggaataa aatgtttatg 1680
aaataaaaaa atttttttaa aaaaaaaaaa a 1711

```

<210> 867

<211> 567

<212> DNA

<213> Homo sapiens

<400> 867

```

gcagcatcta taagctagga aggaggccct caccagactt ggaatctgct ggcttcctga 60

```

574

```

tcttggcctt tctagcctcc agaactgaac atggatgaag ctggaggcca ttatccttag 120
caaactaaca caagaacaga aaaccaaata ccgcatgttc ttccttataa gtgggagcta 180
catgatgaga tgagaacatt gcccaaagga accaagtga attaccaaatt tagaagtgat 240
aagagggttga ctctctccag aaattttattg taattagcaa gaggtaatgg tgtctaaata 300
agatgaaaga agatatattta aagatgataa taacaaaaaac tactagaatg aggtgaagcc 360
agaaaggaag agtcataatc aaagaagaga gtgatcaaga atccaaaata gacagagaga 420
gcaggctctt agagaaatgg gagaactacc gcactgactc tgcacgtagg agacaggcag 480
gagaggagcgc cccagccag agctcaacat gcgcaaacag gaagtgtgtc cgagggttttc 540
tggagctcac aggagccggg gaccaca 567

```

<210> 868

<211> 322

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (268)

<223> n equals a,t,g, or c

<400> 868

```

ggaaaaaaag aaaagaatag agctacagaa ggaagttcaa gcctaaatta atttgccact 60
gaaaaaatac attttgttat tttctctgtg tcaactgcat gattaaaacc ggctgttaag 120
tgagctctgg ggatgtgctc gtaaaagatt tatgagtaat attcaatgtg atattcaaag 180
tgagtcatga atatcaggat aattgctctc agtgctggct cttttactag gcaggagttt 240
gkcaactgcc ccataaatat ttgcctantc tcatgtaaaa aagacmattt catcttctgc 300
atttttatta cctagtataa tg 322

```

<210> 869

<211> 237

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (225)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (227)

<223> n equals a,t,g, or c

<400> 869

```

ccgggtcgac ccacgcgtcc gattgcaggt gtgaaccact gtgcccagcc ctgattttta 60
tatgtcagaa ctaattcggg tctcttaaaa tgctctgtgg ggccaaacaa attgtgtgcc 120
agatgtggcc ctcaagttgc cagtcctgtc tgtaccagga tgcttcgtta ttgacaaaact 180
ctcacattgc aactggagtg gaaacggtgt tagccactaa actgngnggg tttcata 237

```

<210> 870

<211> 523

575

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (45)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (57)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (62)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (91)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (516)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (519)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (523)
<223> n equals a,t,g, or c

<400> 870
ggaaggggga agatctggat ccaaccgtgg gtgatgggtac ccgnggcccc caggttngga 60
tngggatgga ccaaaatccc atctgggcca ncggctctat ggaaaattkg gcttaagtaa 120
ttatttccag tattccattg tattccattg tcccttcgtg ttccataagt taaatgactg 180
tctaattttt ccaaaaattt atttctgact tgagaataag tgtgtcatga ttttcccagt 240
gtaaagacac tgatataact gtagatacca gacattttat gtagtgtcta tgacacattt 300
tagtatgtat gagccaacaa tagacatgtc tttgtcttga ggagtgtcca tctgaattga 360
aaatgtgtca gctttttttt aacatcatca acagacttct taattaagct gccaatatcat 420
actgccaaata cactgtgtgc tgtctgagaa atgcattgtg taagtgtctat ttccatctta 480
ttaaataaac aatgttgctc tgtataaaaa aaaaanaana aan 523

<210> 871
<211> 1172

576

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (174)

<223> n equals a,t,g, or c

<400> 871

```

gaagccaggt ctgctgtggg caagtatagc ctaaccctag tcttgtaaaa taagccagaa 60
agggttactg agccacctta agctagtacc tatatagtag gcaaaaagta cagaaataga 120
tgcaataagt gtggtgagtc tttgagccta cgagtcatgc caccagccat aagntgacct 180
atcacttgag aacctcctca gcaaagatgc cagaaaacat tcaatcaagt tggcaaatga 240
cacagggaag cttggccctc ttgaccatct tcctggcaaa cctggactgg aagggccatt 300
tgcagcactg tcctggagct aatacactgt ttcactgcct ctgccatata atgatgccag 360
cactagccag ctgggtgggta tttggaggaa tcctgcatga ggattgcca ataaggggca 420
ggtacacata cctggcaaaag tgatgatgat gtgaattgtt tccagtgagg ggattgagtc 480
aaaacttgga tctcaggtag ctcaatTTTT cccccmattt ctggctacta ctaaaagcca 540
gaaagaacag aacagtggcc tcaggagatc tgagtttgaa tccttgctct ctaggatgca 600
ggtggcttga agcagaatgc cacacctgca agttgattag aactgccttt cttcccaggc 660
ttgacatagg tattaagtcr aaattacatg aaacccagtg gtaaaaaagc ctctgaaagc 720
tgtaacaccc ycagtaataa caaaagggat ttttatttcm cagctaaagg gaaaatagg 780
ggagaagtta aaaaataatg tctgatcctg ttcctaagtt ccaaactata gccaacactc 840
tgatgctgct ctttttcttg taggaccaac cgtcccagtt tgcctgggac tttctcattt 900
ttacagagtc ccaaataccta ggaaactgga gcaactggta caactgggtca cctactcttg 960
cccctctgta aatcaagcca actgtgacca tccaatgtgc catcttacag ggaaaagtta 1020
taaccactat tcccctataa cataatgcta atgattgtac ttagtacatt tttatacttt 1080
tatgatattt tactgattgg aaatgtcatc ctttatttaa aataaacatg gttttccata 1140
gttgctgccc aaaaaaaaaa aaaaaaaaca tt 1172

```

<210> 872

<211> 511

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (205)

<223> n equals a,t,g, or c

<400> 872

```

gaaaggccga gatctgtcca gctgcggtga gaggnacgct gaatcgccga agagaattgg 60
ctgcgcttcc ttgtttgtga gctagaatta gaatggcgat cagtccacga agcgatgcaa 120
ctttctccag tcagaaatca acaccttcag agagtcctcg aacaaaagaaa tttccactaa 180
ctgaagagga aatattttat atganttgta gagctgccta cttaactgtc ttcaaaagca 240
gcttggaaaa cattattttc aaagatcaac tttacttagc tcttcagcat gcaggaagaa 300

```

577

```

atccatccca aaagaccatt aataagtatt ggactcctca aactgccaaa ctgaattttg 360
atgatttttg tataatttta aggaaggaaa aacctacttc aaaagcagaa ctactaaaat 420
catttaagca attagatgta aatgatgatg gctgtatttt acacactgac ctttataaat 480
ttctaacaaa gagaggtgag aagatgactc g                                     511

```

<210> 873

<211> 464

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (338)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (391)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (437)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (459)

<223> n equals a,t,g, or c

<400> 873

```

gggctttgct gtgcagaagc agcagttata tcggtccctt caagaaaactg cctgcagaga 60
ttcctggagt catctgcctg gagcattgsc cactcacctc ctcaactcac ctccctggctg 120
ctccacgtca ttcttccaat ctcatcttaa atgttatttc cttaaagaaa cttttcctga 180
cccagagtaa aatcagtacc ttcgggtatt cactctcaca acaccttgac ttttttcctt 240
catagcactt agcacagttt gcacttatat ttatttttagt gttttctggc ttaaaacctg 300
tttgccctat cactcatgaa actataaacc agaccctntc tatttttactc accactgtat 360
aactagtacc taacagagca tggcataaag nggctactaa gtaaatgaat aatgaataaa 420
tgaatgaaca tacctgnttg cctaactaaa ggatctagnc attt                                     464

```

<210> 874

<211> 88

<212> DNA

<213> Homo sapiens

<400> 874

```

tctttttgcc tttaaaaatc cacttgcagc tgcgctaata caagtgtaga ttccctggcaa 60
catgaatctt tgatcccagg ttacaatt                                     88

```

<210> 875

<211> 617

578

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (533)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (565)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (572)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (578)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (596)

<223> n equals a,t,g, or c

<400> 875

```

gcggccgctg ggccctgagtg tcgccttcgc cgccatggac gccaccgggc gctgacagac 60
ctatggagag tcaggggtgtg cctcccgggc cttatcgggc caccaagctg tggaatgaag 120
ttaccacatc ttttcgagca ggaatgcctc taagaaaaca cagacaacac tttaaaaaat 180
atggcaattg tttcacagca ggagaagcag tggattggct ttatgaccta ttaagaaata 240
atagcaattht tggtcctgaa gttacaaggc aacagactat ccaactgttg aggaaatttc 300
ttaagaatca tgtaattgaa gatatcaaag ggaggtgggg atcagaaaat gttgatgata 360
acaaccagct cttcagattt cctgcaactt cgccacttaa aactctacca cgaaggatc 420
cagaattgag aaaaaacaac atagagaact tttccaaaga taaagatagc atttttaaat 480
tacgaaactt atctcgtaga actcctaaaa ggcattggatt acatttatct cangaaaatg 540
gcgagaaaat aaacatgaaa taatnaatga anatcaanaa aatgcaattg atatanaaac 600
taaccagaaa atgttga 617

```

<210> 876

<211> 295

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (271)

<223> n equals a,t,g, or c

579

<220>
 <221> misc feature
 <222> (295)
 <223> n equals a,t,g, or c

<400> 876
 ggcagttttca atttttactat ataaggtgtc taattataacc cattagataa aacaacctca 60
 tcagtcatta gacatcaaaa actgaattaa gctacagaaa acgttgattt ttgaaagcag 120
 cctattatca ctgtcagctt tccatgacgc tgatgtttga ctatagtaaa acaaataataa 180
 tatgtatatc cctgatctac tatctatatt gtataaagtg gcaatgacta aaggggcaaa 240
 caagtattat attatatact tggcatttct ncttcatgaa atgatgtggg tctgn 295

<210> 877
 <211> 652
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (154)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (159)
 <223> n equals a,t,g, or c

<400> 877
 cacacataga ccaaacttgt atacacacag acatctacac tgacataccc catgtacaca 60
 cacagatcta gacgtgctcc acatatgtgt gaatatgcgc acatacaggc ctaccacaaa 120
 cacaaaaccc acctgcaaaag gtttcacgga acgnnggagnc tctcctggcc tcccgctccct 180
 cctcccagcc tgttttgttgt gcctctgtag agagcgcttc ggagagagag gcgaagtagg 240
 aagtgggatt ttctcttccc tctcctgggc ccgtttgccc ctaccctcgc ccagcaagct 300
 ggcgccccaaat tctattctgc ctctggaaaac tgctggacca tccaagggtca gctgcctgcc 360
 ctgaccctta ccccgaggcc agcttgctct cctgggaggc gggacaggcc ccagtgaagg 420
 tccgttgtgc gctgtgccta tctctcgatt ccagggcaga tgagccacaa catcaccacc 480
 ctgccactta caagggtgggg gacctgggtc tgggggtctca ggcgcaaact ggaggccctc 540
 acagcccact aggccccctc ccaaccccag taccctcagt ccctcagtca ggtgggtgcta 600
 gtagagctat ctctgacgst gcaggcccca ggtagatggg caggggcccggt gg 652

<210> 878
 <211> 431
 <212> DNA
 <213> Homo sapiens

<400> 878
 ggaagaaatt tgatttcaga aatgtcctat atttaaataa gcaaagccat tgaaattgaa 60
 gcacatttct tatttgaagc atctgggaaa tacaactgtt aagtatctct caaatattca 120
 gtatatggaa tttataccca catttgtttg tatatctatc tgtaagctgt tgcttagaag 180
 aattgagagt ttggattatt tcagaatata actattacag ttttccatag ttgattgaaa 240
 gtttttaaac tcaaactttc attggtagaa tatctggaag gcatgtttgc aatataatgt 300

580

ggcttgtagg atctctccta cttttttatg ctctgttttg ccagttctca aaagtaaata 360
cctgaagtcc tagagggtact ataaacattt tggtaaacad tctttgagac tttttctcat 420
gtacatgtaa a 431

<210> 879
<211> 370
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (370)
<223> n equals a,t,g, or c

<400> 879
aagtcggagg tccccaaatc tgccgtgtat gtggggacag gccctgggtat cacttcaatg 60
tcatgacatg tgaaggatgc aarggctttt tcaggtagag ttacccatca gccttcaccc 120
acgtgccacc actgacccac tgggtaacrt ctcagggcct cagcttgacc trtccccag 180
gttcagagtg tgggctgggtg gcccacccaa aggccttgta attagtctca agggagccat 240
ttatatccca gaggaatcct tcatcttcag tcttctgtt ctaccagga aaggtctcct 300
tccattaaga tatcccttgg tttctccatg tgctcttgaa taaaatggaa aatgactcag 360
tgaaaaaaaaan 370

<210> 880
<211> 326
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (208)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (298)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (312)
<223> n equals a,t,g, or c

<400> 880
gcggaacgcgt gggcgcgctc cttcctgggtg gactcgctag tgctgcgcga ggcggggcgag 60
aagaaggcgc ccgagggcag cccgcgcgcg ctcttccccct acgctgtgcc cccgcgcgcac 120
gcgctgcacg gtctctcgcc tggcgccctgc cagcgcgcca aggctgggct gctgtgcgtg 180
tgcccgcctct gcgtcaccgc ctgcagntg catgggcccc ccgggcccgc gcgctgcctc 240
tactcaaggc ttccttccca cccttcggct cgcagtaactg cagcgcccc tgggcccgnca 300
gcactctgct gngtcgcccc gggtcg 326

581

<210> 881
<211> 1315
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1283)
<223> n equals a,t,g, or c

<400> 881
agaggctcag gcttacacag cttacctctc aggaatgcta cgttttgaac atcaagaatg 60
gaaagctgcc attgaggctt ttaacaaatg caaaactatc tatgagaagc tagccagtgc 120
tttcacagag gagcaggctg tgctgtataa ccaacgtgtg gaagagattt caccacaacat 180
ccgctattgt gcatataata ttggggacca gtcagccatc aatgaactca tgcagatgag 240
attgaggctt gggggcactg agggctctct ggctgaaaaa ttggaggctt tgatcactca 300
gactcgagcc aaacaggcag ctaccatgag tgaagtggag tggagaggga gaacgggttc 360
agtgaagatt gacaaagtgc gcattttctt attaggactg gctgataacg aagcagctat 420
tgtccaggct gaaagcgaag aaactaagga gcgcctgttt gaatcaatgc tcagcgagt 480
tcgggacgcc atccagggtg ttccgggagga gctcaagcca gatcagaaac agagagatta 540
tatccttgaa ggagagccag ggaagggtgtc taatcttcaa tacttgata gctacctgac 600
ttacatcaag ctatcaacgg caatcaagcg taatgagaac atggccaaag gtctgcagag 660
ggctctgctg cagcagcagc cagaggatga cagcaagcgc tcaccccggc cccaggacct 720
gatccgactc tatgacatca tcttacagaa tctggtggaa ttgctccagc ttcttggttt 780
agagggaagac aaagccttcc agaaagagat aggcctcaag actctggtgt tcaaagctta 840
cagggtgtttt ttcatgtctc agtcctatgt gctggtgaag aagtggagcg aagccyttgt 900
cctgtatgac agagtcctga aatatgcaaa tgaagtaaat tctgatgctg gcgccttcaa 960
gaacagccta aaggacctgc ctgatgtgca agagctcatc actcaagtgc ggtcagagaa 1020
gtgctccctg caggccgcag ccattccttga tgcaaacgac gctcatcaaa cagagacctc 1080
ctcctcccaa gtcaaggaca ataagcctct gggtgaacgg tttgagacat tctgcctggg 1140
acccttccct tggtcaccaa gcaagccaac cttgtggcac ttcccaccag sgtttcagcc 1200
ctttccctgg caaggctttt gttcttttga ctgggcytc aaaccatgtg ggcttttccc 1260
accccttgag ggacaagttt ggnacaggaa ggaccaagag tgggctcact gggta 1315

<210> 882
<211> 988
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (550)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (977)
<223> n equals a,t,g, or c

<400> 882
gatcctctgg ttttagaaa acgcagtgga gacagggacc tggagccaga ttggctagcg 60

582

```

caacttcgga ggcagctgga gcaaaaggta gcaggagaca ttggggatcc tcatactact 120
cgctcagata ttctgggagc cggaggaaca acaacagaaa acactttcta ccaggacttt 180
tctggatgtc aaggctactc tgaagccctt gggtagcctt cagctctgtg gctgacacct 240
gagcagacct gcctgctcca gcccagccca cagcagccct ttcccccca gccgggctcc 300
taccagcagc gaggggggtgc agggcagaca gggacaccga ggccctttta ctcagtccct 360
gagacccatc taccagggac tggcagcagc gtggcagtga cagaggccac tggaggaaca 420
gtctgggagg aaatgctgca gacacacctg ggccctggas asaacacagt gtctcaagaa 480
acttcccagc ctctgatggg ccaagaggct atttccaaac cacagacacc attggctgct 540
asaccacgan tattttctgag agttccgcca gttagcccaa ggaggatgag aaggagtcct 600
ctgatgaggc tgataaaaaac tctccccgaa atactgccca gagaggcaag ctcgagatg 660
ggaaggagca tacaaagagc tcagggtttg gctggttcag ctggtttcga tcgaagccca 720
ccaagaacgc atccccckct ggagacgagg actcctcaga cagccctgac tctgaggaga 780
ccccagagc atyttctccc caccaggctg gcctgggcct ttactgaca ctttccccctg 840
agtccccacc tyttgccgga tgtagtgcc ttttccagg ggcaagggtg ggggggtgaar 900
gcckaggaty ccgcatccag cgggggggagc agttgcgggg gcgcttgggg tttggagggt 960
tttttggaaac cagaganttt tttctttt 988

```

<210> 883

<211> 440

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (435)

<223> n equals a,t,g, or c

<400> 883

```

gctggacgtg aattttgggg acactgttca gcacactcca cctagagccc caagggggcca 60
gagtgggttg aaggcggaag gcccagcac agtggaaagt ccgcgcttga ggagtgaactc 120
tcttgtccst gaggtgtttc cagggtctgg gcagggggccc gtcagccctg aggttccggg 180
atgccctcca tctccacatt cccatgttcc ccacgctggg caggctcttc tctccaggga 240
cactgcgttc atggggagac atcgtcctct gagtcaggag ccagagggtt gaggggttggc 300
cgcrctmcag aggaggggga agatcccgtt cccacgtgcg tttggccact gggggcgctcc 360
ctgggcccgt cagcaggatg gctttarcac yggckgagtc tcccttcagc ctcgggggtgg 420
atggtttcca tggcngaatt 440

```

<210> 884

<211> 491

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (174)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (462)

<223> n equals a,t,g, or c

583

<400> 884

```
gtcaaaattg agccagagga tctggacatc attcaggtea cegtcccaga cccctcgcca 60
acctctgagg aaatgacaga ctcgatgcct gggcacctgc catcggagga ttctggttat 120
gggatggaga tgctgacaga caaagggtctg agtgaggacg cgcgggccga gganaggccc 180
gtggaggaca gccacggtga cgtgatccgg cccctgcgga agcagggtgga gctgctcttc 240
aacacacgat acgccaaggc cattggcatc tcggagcccc tcaagggtgcc gtactccaag 300
tttctgatgc acccggagga gctgtttgtg gtgggactgc ctgaaggcat ctccctccgc 360
aggcccaact gcttcgggat cgccaagctc cggaagattc tggaggccag caacagcatc 420
cagtttgtca tcaagaggcc cgagctgctc actgaggagt cnaagagccc atcatggata 480
gtcaacgaac c 491
```

<210> 885

<211> 865

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (683)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (720)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (781)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (817)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (827)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (852)

<223> n equals a,t,g, or c

<400> 885

```
caagcccacg tgcaatgagc tgatcaaaac catcatcatc cagcatgaga acatcttccc 60
aagccccagg gwgctggagg gccctgtcta cagcagagga ggaagcatgg aggattactg 120
tgatagccct catggagaga ctacctcggt tgaagactca acccaggatg tgaccgcaga 180
```

584

```

gcaccacacg agcgatgacg aatgtgagcc catcgaggcc attgccaagt ttgactacgt 240
gggccgggaca gcccagagagc trtccttttaa gaagggagca tccctgctgc tttaccagcg 300
ggcttccgac gactggtggg aaggccggca caatggcatc gacggactca tcccccatca 360
gtacatcgtg gtccaagaca ccgaggacgg tgctgtggag aggtccagcc ccaagtctga 420
gattgagggtc atttctgagc cacctgaaga aaaggtgaca gccagagcgg gggccagctg 480
tcccagtggg gggtcatgtag cccgatattt atcttgcaaa catcaacaag caaaggaagc 540
gtccagaatc tgggaagcat ccgaaaactt ttcggagtga cagccatggg cttgagcagt 600
tccctgactg actcctcctt cccaggggtg ggggctagct gccgccatct ccagccatca 660
tgagccagag ccttccaaag aanggccaga taagtgggtt attaatgggc acggagcctn 720
aacttcatta accgcaatca tccttgaaga atcggtgga tagtccacag atccggaaga 780
ntggcacaaac gggaagggtca aaaggttcaa taccatnggc catggancct taggcaatgg 840
tcaagatatt gnggaacaat gaact 865

```

<210> 886

<211> 1006

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (138)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (159)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1006)

<223> n equals a,t,g, or c

<400> 886

```

ggcacgagct cgtgccgaat tcggcacgag ctcaaccaac ctgcatctag aaagtgaatt 60
ggatgcattg gcaagcctgg aaaaccatgt gaaaactgaa cctgcagata tgaatgaaa 120
ctgcaaacag tcagggcnca gcagccttgt taatgggaang tccccaatc gaagcctcat 180
gcacaggctg gcaaggattg gaggagwtgg caacaataaa gatgatgacc caaatgaaga 240
ctggtgtgct gtctgccaaa acggaggaga tctcttgtgc tgcgaaaaat gtccaaaggt 300
ctttcatcta acttgtcatg ttccaacact acttagcttt ccaagtgggg actggatatg 360
cacattttgt agagatattg gaaagccaga agttgaatat gattgtgata atttgcaaca 420
tagtaagaag gggaaaactg cgcaggggtt aagccccgtg gaccaaagga aatgtgaacg 480
tcttctgctt tacctctatt gccatgaatt aagtattgaa ttccaggagc ctgttcctgc 540
ttcgatacca aactactata aaattataaa gaaaccaatg gatttatcca ccgtgaaaaa 600
gaagcttcag aaaaaacatt cccaacacta ccaaatcccc gatgactttg tggccgatgt 660
ccgtttgatc ttcaagaact gtgaaaggtt taatgaaatg atgaaagttg ttcaagttta 720
tgacagacaca caagagatta atttgaaggc tgattcagaa gtagctcagg cagggaaagc 780
agttgcattg tactttgaag ataaactcac agagatctac tcagacagga ctttcgcacc 840
tttgccagag tttgagcagg aagaggatga tgggtgaggta actgaggact ctgatgaaga 900
ctttatacag cccgcagaa aacgcctaaa gtcagatgag agaccagtac atataaagta 960
aaatgacatg gattttaaactc aattgtttta aaaaaaama acgaan 1006

```

585

<210> 887
 <211> 602
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (47)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (109)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (110)
 <223> n equals a,t,g, or c

<400> 887
 accaaccctc actaaaggga acaaaagctg gagctccacc gcggtgncgg ccgctctaga 60
 actagtggat cccccgggct gcaggaattc ggcacgagaa caagcggann ggggaaccgg 120
 gccgccaatg aagaggaaac gwaaaacaaa cccaaattga acattcaa ataaaaactttg 180
 gcagatgatg tgcgtgaccg aattacaagt tttagaaaat ctactgtcaa aaaagaaaaa 240
 cctcttattc aacatcctat tgattctcaa gtgcgcatga gtgagtttcc tgcagctcag 300
 ccattatatg atgaacgatc tttgaatttg tcagaaaagg aagtattgga tctctttgaa 360
 aaaatgatgg aggacatgaa ccttaacgaa gagaaaaaag ctccctttacg aaacaaagac 420
 tttaccacca aacgtgagat ggttgtccag tatatttctg ccactgccaa atctatagtt 480
 ggaagtaaag ttacgggtgg gctgaaaaac agcaaacatg aatgcaccct gtcttcacaa 540
 gaatatgttc atgaattacg atcgggtatt ttcagatgag gaaacttctt aaattgccta 600
 gg 602

<210> 888
 <211> 800
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (623)
 <223> n equals a,t,g, or c

<400> 888
 cacacacaca ggagagaagt cctatgtgtg cagtgtgtgt gggcgaggct tcagcctcaa 60
 ggccaaccctc ctcagacacc agaggacaca ctcaggagag aagccttttc tgtgcaagggt 120
 gtgtggacga ggctatacca gtaagtcata cctcactgtg catgagagaa cacacacagg 180
 agagaagcct tatgaatgcc aggagtgtgg gcgaagggtt aacgataagt cctcatacaa 240
 caagcacttg aaggcgcatt caggggagaa gcctttttgtg tgcaaggagt gtgggagagg 300
 ctatacta ataatcact tctgtgtgca caagagaata cactcaggag agaagcctta 360

586

```

cagatgccag gagtgtggcc gaggccttag caataagtca caccttatca cacaccagag 420
gacacactca ggggagaagc cctttgcgtg caggcagtgt aagcaaagtt ttagcgtgaa 480
aggaagtctc ctcagacacc agagaacaca ctcaggggag aagccttttg tgtgcaagga 540
ttgtgagcga agcttttagcc aaaagtcaac tcttgtctac caccagagaa cacactcagg 600
ggagaaacct tttgtttgta gangaatgtg ggcaaggatt tattcagaag tcaacccttg 660
ggaaacatma gatcacacac tcagaggaga agccttttgt gtgcaaggct gtggacaagc 720
tttatccaaa agtcaacttc actttcacca gaggacacac tcagaggaga agccttatgg 780
atgtcggggag tgtgggcgaa 800

```

```

<210> 889
<211> 387
<212> DNA
<213> Homo sapiens

```

```

<400> 889
gctcttttatg tctctatttg aagatacttt gtctaaacaa agaataccag atgtgcgcaa 60
tattgttcaa cagcagttct gtggagaata tgccatgta actgtttgca accagtgtgg 120
cagagagtct aagccttttg caaaatttta tgagctggag ttaaataatcc aaggccacaa 180
acagttaaca gattgtatct cggaattttt gaaggaagaa aaattagaag gagacaatcg 240
ctatttttgc gagaactgtc aaagcaacaa gaatgcaaca agaaagattc gacttcttag 300
ccttccttgc actctgaact tgcagctaat gcgttttgtc tttgacaggc aaactggaca 360
taagaaaaag ctgaatacct acattgg 387

```

```

<210> 890
<211> 385
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (311)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (327)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (350)
<223> n equals a,t,g, or c

```

```

<400> 890
ggcaggaggt caacggggag gtgcggagtc ggagagacag catctgcagc agcgtgtcct 60
tgagagagctc tgcagcagaa acacaggagg agatgctgca ggtgctcaaa gagaaaaatgc 120
gactcgaagg acagctggaa ccttgtcact ggagggcaggt caggcactta aagagaaggc 180
tgagctgcag gccagctgg cgcacctcag cacgaagctg caggcgcagg tggagtgcag 240
ccacagcagc cagcagcggc aggattcgct gagctcggag gtggacaccc tgaagcagtc 300
gtgctggggac ntggagcgag ccatgantga ccttgcagaa catgctggan gcaaaaaatg 360
ccagctggcg tcgttccaac aacga 385

```


587

<210> 891
<211> 448
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (385)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (412)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (444)
<223> n equals a,t,g, or c

<400> 891
aaaccttaca aatgtgatgt atgtcacaaa tccttcaggt atggttcctc ccttactgta 60
catcaaagga ttcataaccg agaaaaacca tatgaatgtg atgtttgcag aaaagccttc 120
agccatcatg catcactcac tcaacatcaa agagtacatt ctggagaaaa gccttttaag 180
taaagagtgc ggaaaagctt ttaggcagaa tatacacctt gccagtcatt taaggattca 240
tactggggag aagccttttg aatgtgygga gtgtggaaaa tccttcagca tcagttctca 300
gcttgccact catcagagaa tccatactgk agagaagccc tatgaatgta aggtttgtag 360
taaagcgttc acccagaagg ttcantgca cagctcagaa aaccctacag gngaggaaac 420
cttatgagtg caaggattgc ggtnaagc 448

<210> 892
<211> 336
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<400> 892
ggaacagttg ntaagaataa tgtgagttcc tatctgaaat agaatggtac attaccactt 60
ttaagtttta aaaattgata gatgttcaga tgtatctcaa actcagtttt atttttattc 120
caaatattgt gaatgagaag ccattgtcct aaactttggc catTTTTgtg ctataaacat 180
gcattttttaa gttataagggt gaatcaaaca atatgtaata cagtattagg atgtaatctt 240
tgcttttgta gtactgttaa aatagagaat tatgttgttt gcaccgtctt aattaaaaatt 300
cttgattttt actagttgct ttgcaaaaaa aaaaaa 336

<210> 893
<211> 1555

588

<212> DNA

<213> Homo sapiens

<400> 893

```

gcggaacggtg ggtcgaccca cgcgtccgct actaacaact taccacagtg cgggagactgc 60
tttctgaaaa ggccactcac gtgaacacta gggatgaaga tgagtrtacc cctcttcatc 120
gagcagccta cagtggacac ttagatattg ttcaggagct cattgcacag ggggccgatg 180
ttcatgcagt gactgtggat ggctggacgc ccctgcacag tgcttgtaag tggaataata 240
ccagagtggc ttctttctta ctgcagcatg atgcagatat caatgcccaa acaaaaaggcc 300
tcttgacccc cttgcatctt gctgctggga acagagacag caaggatacc ctagaactcc 360
tcctgatgaa ccgttacgtc aaaccagggc tgaaaaacaa cttggaagaa actgcatttg 420
atattgccag gaggacaagt atctatcact acctctttga aattgtggaa ggctgtacaa 480
attcttcacc tcagtcttaa caattctagt aattttccta agtttctaaa taccagtgcc 540
tcctgtgtgt gagatgtatt ccataaatca aagttgacgt caaacatctt actacaaaaa 600
ttcagtgaca ttcattataa cattcttcca agtgaattgc ctgactttra tgtcaaaatg 660
tatttgaaag taatttgcat atatctttta ttatttctgt ggagtttggt atttttttat 720
cagaaataat tttaatgtgt gtatacttaa aaacttgaca cgggttggtac agaaaactgg 780
atttttgggt ctgatacaag agaaatgtat ttttaaatat cccacatcct ggatctttgt 840
tgggtattta gtatattgac atatatTTTT ataaggtgag gtaactcaga acttaattta 900
aaagtcttaa atattctgat acaattcagc tgtcttctct accttaccat agccagttgc 960
tttcatttta aaccagagca agtaacatat tagtgacttg aatcttcata agttaaaagta 1020
aaaaacagca aaaaacctag atctttgtct tttagaacac agaccatttt caggaaaagca 1080
gttagctaag tgtttaattc atgaatattg tatactgcat cccctaccac aattttacaca 1140
atcctgtgga tagtcctacc tcaccctggt caacctacat gatccttaag ctaatggcga 1200
atcacgatga ccttgtagac atgcacacaa ctataccttt gtccaacaga tcataatata 1260
tctgctatcc aactggtttt acctgcctaa tcctactgat ttgggcactg cttgtatagt 1320
ctctcaagtt cacaggaaat gttgattttc taaggtcctc attttttacag agtatacagg 1380
caaagtgaca ggggaaaagg aattagtcta agagtaaggg gatgattatt atattgaggc 1440
taaaaccaca aagtggctca ggcttttaaaa aaaaaacact gtggataatg acaaaaagca 1500
taagtaaaaa tatttgagaa aaataaaagta caagttttga mcaacaaaaa aaaaa 1555

```

<210> 894

<211> 743

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (68)

<223> n equals a,t,g, or c

589

<220>

<221> misc feature

<222> (75)

<223> n equals a,t,g, or c

<400> 894

```
actcncgggt tagntggtac gcccgcaggt accgggccgg aattccccggg tcgacccacg 60
cgtccggnaa aaaanatgga aaaagaccca agcagattgc ttctttgggc tgctgaaaaa 120
aatcgggtaa aaaaaaaaaat tacagaggga agtgtgacag taggaaaagc actgggttca 180
agccagaaga cctgccttta ctgttatggc catcatacct atctcttgat tgtgaggacc 240
aaatgagaca atgtacatga aagcacatat taagctgcaa agtgtcatgc tagcttacca 300
caattttacac aatcctgtgg atagtccctac ctcaccctgg tcaacctaca tgatccttaa 360
gctaattggcg aatcacgatg accttgtaga catgcacaca actatacctt tgtccaacag 420
atcataatat atctgctatc caactgggtt tacctgccta atcctactga tttgggcact 480
gcttgtatag tctctcaagt tcacaggaaa tgttgatttt ctaaggctct catttttaca 540
gagtatacag gcaaagtgc aggggaaaag gaattagtct aagagtaagg ggatgattat 600
tatattgagg ctaaaaccac aaagtggctc aggcctttaa aaaaaaacac tgtggataat 660
gacaaaaagc ataagtaaaa atatttgaga aaaataaagt acaagttttg aacaacamaa 720
aaaaaaaaaa aaaaaaaaaa aaa 743
```

<210> 895

<211> 158

<212> DNA

<213> Homo sapiens

<400> 895

```
gaggcagcct tgggtgaggg cttccccacc cgcttgcccc acttgaaggc ggctcgctgc 60
ttgcccccca gtttgtctgg ggggtgcaggg gtgggtggta ggcctggggg tccgggcgtg 120
cggggctcac tcagggccgt gagagaacga gtacacat 158
```

<210> 896

<211> 333

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (298)

<223> n equals a,t,g, or c

<400> 896

```
gatactgagc gtgcgccccg gggtctcgcc gccttctctc cgccgagcag cccttcgggc 60
accttttgcc cttaaaaaatc tgcagactgc gcctcctctc cgccgggagcg agacctagca 120
ggccccggggc tgggcgtgcc ctgcctgcc acgctgcgcg ctgcycctag ccggggccgct 180
ggggcccgctg agtgcaccgg gcacgccgcg ccaggctggg ggcaggcacc gagcctccgt 240
gggagggtccc gaggcagctt cgctgctcgc cctggctcca gccctcacct gccgcagnct 300
tagctgarca gmcgcgmcac tgggcgcccc cgt 333
```

<210> 897

<211> 696

<212> DNA

590

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<400> 897

```

gatngagggc cagacggctg ctacccaggt atcctttctc tttggaattg aaatgcagag 60
aacattatta aacagcctat ttgctgtgag tgtggaagtg tttccacaga cacccttttg 120
ggaaaaagaa aagggcaaga atcaacctga aaactacaga ggatatatta gccacggttt 180
gcacgcattc tgcttatgga tctttcagtg actccagtgga ggggccatct gtcccatcca 240
gtgcctgagt gcagccccc ccccccacctt tgggtccagag aagtctttgc cccaagaatc 300
tgcccagagt tggggcatca gcccctacag gtgtgggtcc ttcttcagga ctgtgtggaa 360
cttttccttt tgaagaactt tcctggggat gaccactctg cttggagtct ggggtggagc 420
ctggtgtgag ggagccagcg tagggtttgg gtgcctgccc caccctcaga agcaggagcc 480
cagcagccct tggactgacc ggtgctgtty tggggctccc actggctcct tccactgtgg 540
agcactcccg tgaacactgc tttggtttga gtaccagtac aagtgttggg tgtatgttcc 600
tgaccttgag gcattyttga ttgkgcagtt acctagggta tgcttgtgtc tgacatgac 660
attttttttt ttttaataaaa aatggcatgg aaaaaa 696

```

<210> 898

<211> 450

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (332)

<223> n equals a,t,g, or c

<400> 898

```

gcattggcct tgggctggta actgttgaag tcaggatgatg gggacagaaa gggttcattgt 60
tctatttttg ttccctttat atggctcctc acagagcttc aacagcatgg cccagggtgac 120
acagagcagg gtccctcaggg cttgtggctt gtggcagcat caccctcaga ctgacactgc 180
tgaggagccg ggggctggta gctgcaggtg tgccctggctg ggtactgagt ggaaagcctt 240
gggcagaatc ttcatagaag tctagagttg gggagagttg gagggatatgt taagtgaag 300
gtgtatacac ctggaggctt ccccaggccc tncactctcg ctctgctctt cggttgaggc 360
agatggcact gctggctgtg gagggcctga tttgtaccac cttccccggc kttatgatgg 420
agcaggggacg acaggctctg gctttgggac 450

```

<210> 899

<211> 827

<212> DNA

<213> Homo sapiens

<400> 899

```

ggaagaatcc gatggtggct ggcgagggcc aagtctctta cgccttcccc tcgtttctcc 60
ctccccgcct cctccgcaga agccgagcgc caaactcaaa ctttatcagg acccggaact 120
ctcaggctaa tcccaggggc cgggcctgtt gggcttttct gcacaccagc cgaggcagcg 180
agccaacatg agccaagtgc tgttccacca actagtcccc ttgcagggtga aatgcaaaga 240

```

591

```

ctgtgaggag aggagagtaa gtataagaat gagcattgaa ctacaatcag tttctaatecc 300
agttcacaga aaggacttag ytattcgtct gactgatgac acggatccat ttttttatat 360
aaccttggtta tatctgagga agattttcaa agkttaaaat tccagcaagg tcttctggta 420
gacttcttag ctttccacaa aaatttatag atctmcttca gcaatgtact caagaacatg 480
ccaaagaaat tccaaggttt ttgctacagt tagytctcca gcagctattk tggataactc 540
acctgcattw kkaaagtgg tagagacaaa tccttttaag catcttacac acctctcact 600
aaaactttta cctggaaatg atgtggagat aaagaaattt ctgcaggct gtttgaaatg 660
tagcaaggaa gaaaaattat cattgatgca atcactagat gatgctacta agcaactgga 720
ctttacacga aagacattag cagaaaaaaa acaagaatta gataagttac ggaatgaatg 780
ggcgtcacat acagcagcct tgacaaaaca gcattctcag gaactga 827

```

<210> 900

<211> 755

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (650)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (680)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (719)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (725)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (737)

<223> n equals a,t,g, or c

<400> 900

```

gtcccttaaa ttctgatcat gtaggacatt cttctttgcc ctgggcctgg gaaaatgcag 60
catgtccaga gcaaaagtc taatgaggga actaaaccag tgggacccaa accaatgtcc 120
tggctcactg agsacccgtt agaaccacaa ctctgggtgt ggacaggctc ccatacttwt 180
caaaaattcc cctgatgact aatgaacaac cagrggtaag aaccagtggc ccagaggaat 240
aaccagccca gctgttgtac gagctcgcta agctggetca ggtcaatgtt gaattctctg 300
ctaggcagct cctcataaga actggcagag atggttctta cacaacaaca ggtgacaact 360
ccagactctg ccggaagtgc caggatctgg gtccccggac aatgcatgac actcagtccr 420
gcattgcagg tgggaagagcg acggtgaaaa gaccraagtc aattaaaatg tgtaaaccaa 480
aacaggaaaac atgagtgagg tgattgagag tgtgtttaac ttagatgtgt gattttatca 540

```

592

```

atacttttcat tgttcaaaaa ctcttatttt ttaaagatat tttcaaaaca aatccaaact 600
ttactttttca ttccaaaaaa aaaaaaaaaag ggcggccggt ctagaggatn caaagcttac 660
gtacgcgtgc atgcgacgtn atagctcttc tatagtgtcc ctaaattcaa ttectggcng 720
tccgntttac aacgtcntga ctgggaaaac cctgg 755

```

<210> 901

<211> 659

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (564)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (634)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (655)

<223> n equals a,t,g, or c

<400> 901

```

aattcggcac gagccgccgc cgggymgcc aaggssaccct ctactgccgc gtcttcctgc 60
tcgacgggac cgaagtgagc gtggacctgc cgaaacatgc caaaggccag gatttggttg 120
atcagattgt gtaccacttg gaccttgttg aaacagatta ctttgccctc cagttcctcg 180
actctgccca ggttgccgcac tggctggatc atgccaaacc cataaaaaag cagatgaaaa 240
ttggacctgc ttatgcttta cactttcgag ttaaatacta ttcttcagaa ccaaacaacc 300
ttcgtgagga gtttacaagg tacctgtttg ttttacaact caggcatgac attctttctg 360
gaaaattgaa atgcccttat gaaacagctg tgggaattagc tgctctctgt ctacaagcgg 420
actttgtgtg agtgcgagct tccagaacac acaccagagc ttgtgtctga gtttcgggtc 480
attccaaatc agacagaagc aatggaattt gatattcttc agagatggaa agagtgcagg 540
ggaaagagcc ctgccaggg cggnaactct cctatctgga atgaaagcga agttggctgg 600
gaaatgtatg ggggtagaca tggcacgttt gtttnagggg gaaggagatg ggctnttg 659

```

<210> 902

<211> 597

<212> DNA

<213> Homo sapiens

<400> 902

```

gtattgacca gaaataaaact tttaaatgat ctgtgatgtt tacaaggata tgtctaaaac 60
gtttattaca ttatttttct cttaatgtga attctccacg tttgaaactg taactcgttt 120
tctcattttt tgttcttctt gttacttct catattgtgt acttggaat tacctttgta 180
aatacttgag aaattcgttc ttatatataa ttaatataaa aagtttgcat ttctcaaaaa 240
catctctatc aaagcctgtg ttctcagcag tttaatatca aagctttaat aaaataatca 300
caactaccca aatgcttata aaatatgttc gattactgga tttttattca ttaaacagaa 360
ttaattttat ttgacatatt taaaggcgcc atttagaaat aaaawtgctt attatgttgc 420

```

593

aataactgtat ctatttcagc ctctacaccg ttttcttttt tgtttcacct gaaactagtt 480
ttccctttccg ttttttttct tgttctatca agctaataa tataatcaaca tacagtaatg 540
gggtgctggg ttttgtaagt taaatatgta cctgcattaa ataaatagta aacatgt 597

<210> 903

<211> 319

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (274)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (307)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (312)

<223> n equals a,t,g, or c

<400> 903

nactaccatt gagaaacaag atcctcatgt tgtcctttga cttgagagtg ggtggcctgg 60
gccccaaaggc cgaccgtttg gaggagcttg tggaggagct ggaagcagcc ctttgctgtc 120
cgcttttgga ggtgggggtct gttttggacc tcctgggttca gctggcaggg agtggtcccc 180
ctcaagttct gccgagaaaa cgagactact tccttaacaa caagcatgtg gggagaaaacg 240
ttccgtacag cggctatgat tgcgacgacc tgantgtgtt tgagatggac gttcaatctc 300
tgatctncag anaagagtg 319

<210> 904

<211> 653

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (165)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (205)

<223> n equals a,t,g, or c

594

<220>
 <221> misc feature
 <222> (554)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (575)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (588)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (642)
 <223> n equals a,t,g, or c

<400> 904
 aagtcaagat caacaggaaa actgcatttg gaactacaac tcttgtcttg actgatttta 60
 gcaataaatc cagtactttg gaaagaaaaa caaagcaaaa ccagatacta gatgaggagt 120
 ttcaaaaactc tcctcctgct agtgtgtgtt tgaatgatat acagnacccc tccaagaaga 180
 caacaaaacga tataactcaa ctatncagca tagtaaacad atcacctaca atcagttcag 240
 aatctaaaatt atttagtcca gcacataaaa aaccgaaaac agcccactac tcatcaccag 300
 agcttaaaaag ctgcaaccct ggatattcta acagtgaact tcaaattaat atgacagatg 360
 gccctcgtac cttaaatcct gacagccctc gctgcagtaa acacaaccgc ctctgcattc 420
 tccgagttgt gaggaaggat ggggaaaaaca agggcagggc agttttatgc ctgtcctctt 480
 acctaggagg aaggcacaat gtgggatttt tttggaatgg ggcagatttt gtccctttcc 540
 ctttctggca accnggggca aggcgtttcc caccntggaa aacagttntt ggaaggtttg 600
 ggaccttaac attgggggaaa ggattttttt tttgttgtgg tnccttttg ggg 653

<210> 905
 <211> 727
 <212> DNA
 <213> Homo sapiens

<400> 905
 cacgggtggaa gggctggggc cacggggcag agaagaaagg ttatctctgc ttgttggaca 60
 aacagagggg agattataaa acatacccg gagtggacac catgcattct gcaagccacc 120
 ctgggggtgca gctgagctag acatgggacg gcgagacgcc cagctcctgg cagcgctcct 180
 cgtcctgggg ctatgtgccc tggcggggag tgagaaaacc tccccctgcc agtgctccag 240
 gctgagcccc cataacagga cgaactgcgg cttccctgga atcaccagt accagtgttt 300
 tgacaatgga tgctgtttcg actccagtgt cactggggtc ccctgggtgt tccacccctt 360
 cccaaagcaa gagtcggatc agtgcgtcat ggagggtctca gaccgaagaa actgtggcta 420
 cccgggcatc agccccgagg aatgcgcctc tcggaaagtgc tgcttctcca acttcatctt 480
 tgaagtgcc tggtgcttct tcccgaagtc tgtggaagac tgccattact aagagaggct 540
 ggttcagag gatgcattct gtcacccgg tgttccgaaa ccaaagaaga aacttcgcct 600
 tatcagcttc atacttcatg aaatcctggg ttttcttaac catcttttcc tcattttcaa 660

595

tggtttaaca tataatttct ttaaataaaa cccttaaaat ctaaaaaaaa aaaaaaaaaa 720
aaaaaaaa 727

<210> 906
<211> 778
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (23)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (608)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (659)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (731)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (754)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (761)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (775)

596

<223> n equals a,t,g, or c

<400> 906

```

agnccatgtc caaggcgtgc ttntntaact tattccatta atactctttt tcacttaggt 60
acatctctct gtcttttgag cttccaacat ttttcccttt taattttatt taaaaatggt 120
ttcttccttc atttattttt cccccataaa acagtatgac aaagggtttg attcagggag 180
agaaaggata tatgaagaca cattcttccc tcttctattc tcttccctgg ttagaaataa 240
ataggcatat agtcctgttt attatgggca ggaaggtagg taaagatcac ctaagtgtt 300
atggcgtgtt ggctttggca catggagaat gagtttttga tcttgttttc tcggcatgtc 360
tgtttcatga gatgagcctg taggaagagt tactaggctc cctgactaag cagcccggag 420
tcttgaccww ywkcaggctg tcaacaatcc taaatagcat atttattacg gactcaaaat 480
gaaatcttra aaaacaaaaa cacaatatat atgtcactgc atggacatcc atcacttttt 540
ctgagcctgt attgcctctg caaaacatta tagcagttac ttagagggaa ggattttttt 600
ctagcctnct ggtaacaggc tccattcaga actttctcga catcttata caatacttnc 660
tacatctaca agccccagaa atctctatgg tctacttggg aatggctatt taaaagcttg 720
aggcacagcg naaaaagcta accataagaa aagnaatttg nttcttctaa atttnaag 778

```

<210> 907

<211> 569

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (569)

<223> n equals a,t,g, or c

<400> 907

```

gagccagatt gcccaactgca ctccacctgt gcgacagagg ggctgtctc aaacaacaca 60
aacaacaaaa agagcagggt cataatcaca cagcagtgcc ttatatagtt gccataagac 120
ttcagtgcag tacaacataa ttttacagct acatatcagg gcatattcta tatggtgtat 180
ttgtgttaga ataacacatt aaatgtcttt aaacataaaa ataagaatgt ttgcatgttt 240
cagttttcaa gaaccaaagt agtaattagc tatagattcc actggcctta aacatacaat 300
taagtgtata catgatatag tgcacacaca aaagccacct ttaattattg aaataacctg 360
tattcttttt ggaaatcatt taagtttggg attgaagtac tatatttttt gtgcatcaat 420
gtattttttc atttacaagc ctatgtaaaa gtgaagtgtg tcttcagtga accatgtgcc 480
aattaagctg taataaaaaa gtggtctagt ctgtcaaaaa aaaaaaaaaa aaaaaaaaaa 540
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa

```

<210> 908

<211> 378

<212> DNA

<213> Homo sapiens

<400> 908

```

gtttgcagtt agaagcagggt gttgtaacat ctattaaatg attttataaa tcttgggttt 60
tatcacattt gattaaatgc tgctaagcca ctgatgggtca attccagagg aaaaaaaaaa 120
tttaatgact acagtttata aaattaatca ccaggcaaaa ctacatattt aaatgtcaa 180
aaggcttgaa tcatgaaaag aattcctcaa ccttggttacc aaattattgt tttcaggatt 240
cacaaagcat gttatatatc catttatatt tcagtttata catatgactg gtttctattc 300
ctgagactta agtaagtact tgggtgcgctt tttcttttgt tacagggtcag aaataaatca 360

```

597

ggataaatgaa aaatagaa

378

<210> 909

<211> 693

<212> DNA

<213> Homo sapiens

<400> 909

```

aattcggcac gagagaaaaa gaaaaaagaag gttaatcctt cagttatgga ggtgggatga 60
atagagcttg tttgatgtta aagtgggtaa ggagggagtg gccttgagac acttgtattc 120
caaactctcc tggaggtttc cagtagcact actgttccta aaagggtttc atttttaact 180
tcatctgttt tgtaacatc cagtccaatt gaggtgatct cagaggtgca tcaggacatc 240
tagcactggg gaggccacct tgcccagata gttgaaaaga aaattggtct gggcagcctg 300
ttgtcttttg tcttcatgta atgttttttc tttgttttaa aggactaatg tttattacag 360
tgtaaataaa aagtgtgaaga tactaagtgt gtagaataaa agtgcaataa caaaagacaa 420
tgactttggc acacacttca gtctttatcc tctctccttt cttgtgctac ctggctcttt 480
ccataatatt gttacagcag gaccgtctta attgtgtgca ttttgaagag atgcgactct 540
gggttaatct tcattagtgt aatattgaag ggttgggttt ggttttatag agtattctgt 600
atacttgttg ggatacacaa ataccagatg tgctgtataa taaagatcac attaacgttt 660
waaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 693

```

<210> 910

<211> 371

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (281)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (351)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (364)

<223> n equals a,t,g, or c

<400> 910

```

ggcacgagct gacccggaat ggaggaggcg gaggagctgc tcttggaggg gaagaaggcg 60
ctgcaactcg cccgcgagcc gcgcctgggc ctggacttag gatggaaccc ttccggagaa 120
ggctgtacgc agggcctcaa agacgtccca cccgagccga cccgagacat cctcgcttta 180
aagagccttc cccggggcctt ggcccttggc ccctcactcg ccaaggaaca gcgcttgggg 240
gtctgggtgtg tcggggamcc cctgcagccc rgcygcatgg ntacctggcc aagaagttac 300
acagccccag tgatcagttc ccacccagag caaagaaccc agagctggaa nccaacagtc 360
tggntttcct a 371

```

<210> 911

598

<211> 684
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (583)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (676)
<223> n equals a,t,g, or c

<400> 911
ggaacttctt aattgtaggt tcctctgaag cgatttcatg tagatatgtg agtggttttaa 60
acaagtctga aagtgttaca tacttttagg ttacaggggt gctggggaga cagctgagga 120
aaggaagaat atgtggaaga caccacggag ttcaaagttt taccctgagt tctatcttcc 180
atgtatgttt tgcttaaggc atttctcatg tgacattaga aaagctatat ccaaagggtam 240
atTTTTTgtg gcaaagattt attttact ttaacttttg ggattttatt tgtttcagca 300
aaataaagag cactgaactt taaacttgaa ttttttctgc acttttttag gtmatgaaaa 360
ctttttatta tcatttaatc cacatkgctc agtttaaacc aagtgataca tgtgtataaa 420
acataccaaa atcatgaata tgctgctagc tgtaccttaa ataaactgat cagtttttaa 480
acctttaata gggttttata tagatwtwwa aaatagtaaa ataactctgt gtatgtttca 540
gtgttcttgg tcttaaaatta ttgcaacact ttcagatttg atntaagatc atacagtaac 600
atgttatatt tatacatact gctagaaaat atacttttag ttttaaaatg gaatttttat 660
aaatgtactt taattntaaa atgg 684

<210> 912
<211> 471
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (398)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (423)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (457)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (468)

599

<223> n equals a,t,g, or c

<400> 912

```

ggtgaacccc aagttaaaac cttccaaggg cttcccaatg ctcttaatat aaaatccaaa 60
ctgtcccata tgatctgacc tctcccaaac tctccagcct acttttatgc cactttcccc 120
tttactctct atagtttggc catatttgac tctctcact tcttcacccc tgtkttctca 180
cagtacaatg tacatacgtt tataacattg atcccactgt actgtattct ctggtttgcc 240
tttcctcact agaatgtaag ctctcagaa ggcagtgaga ccatgtttta tattaccctt 300
gcactcctag tttccggcag tggtgactca aacatttggt gagtaactga gcaaataaag 360
aaaaatagaa aagacaggag aaggaagagg taggctangg gaagataatt ttgtttttaa 420
acnttaagtt ttaggtggca ctggtttagt ggaatanaaa tgcacaanaa c 471

```

<210> 913

<211> 604

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (545)

<223> n equals a,t,g, or c

<400> 913

```

gcgcgacacc anccctcact aagggaacaa agctggagct ccaccgcggt ggcggccgct 60
ctagaactag tggatccccc gggctgcagg aattcggcac gagtaactat agcagctaag 120
catttgaaatc agactttctca tagcaatgtt atgggctgtc tgatatattc aggatttgtt 180
gagcagataa gctgtgtgtg atcttactca ttctcagcca tgccgcagac atacccattt 240
cccttttagta attttttaaat acagagaatg ctattaaactg ttactggata tcaaataatt 300
ttatttttct aatagtattt tccaaatatt tcttaaaatt cttaaaattt aggttaaagt 360
ttgctgggtct cttacattta ataaagctgg gacttgaaga cttaccatag ttttcaactg 420
cctttgcaag ttcataaaact tctaagggta aaaagtgaat aagataaatt cagagtttta 480
aggtaaaggc tttatattag cttttttttt ttttaaggt tttttgtggg gtttttttgt 540
tttntttttt ttttgggatg gagtctcgct ctgtcaccca ggctggagtg cagtggcacg 600
atct 604

```

<210> 914

<211> 367

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (317)

<223> n equals a,t,g, or c

<220>

600

<221> misc feature
<222> (346)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (362)
<223> n equals a,t,g, or c

<400> 914
ccccacaatc ctaggcctac ccgccgcart actgatcatt ctatttcccc ctctattgat 60
ccccacctcc aaatatctca tcaacaaccg actaatcacc acccaacaat gactaatcaa 120
actaacctca aaacaaatga taaccataca caacactaaa ggacgaacct gatctcttat 180
actagtatcc ttaatcattt ttattgccac aactaacctc ctcggactcc tgcttcactc 240
atttacacca accaccccaa ctatctataa acctagccat ggccatcccc ttatgagcgg 300
gcgcagtgat tataggnttt cgctctaaga ttaaaaatgg cctagnccat tcttaccaaa 360
anggaaa 367

<210> 915
<211> 286
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (178)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (248)
<223> n equals a,t,g, or c

<400> 915
gaactttgca ttttgtasta aaaaataggt ttcttaatat atgtgattgt aatggcatatc 60
aaggctttta aattcatgtg catataagat aaattttaaa tattcttaga gggttttcat 120
gaaatatcac cttcacatat ttcatcagtt cagtacaaaa tgcaaaaatg tctattgnat 180
aaaacgggag atttaatcac gaccacgtta ggaatctccc agttaccctt gggaacacag 240
ccccccanag tggagacatg cttagactgg cattctgggt caacat 286

<210> 916
<211> 1060
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (684)
<223> n equals a,t,g, or c

<220>

601

<221> misc feature
<222> (819)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (842)
<223> n equals a,t,g, or c

<400> 916
gctcccgcag cgctgtcatg gcgtcctgcg gcgcgcggaag gactggaacg tgcgcctgca 60
ggccttcttc accagtgaca cggggccttga atacgaagcc cccaagctgt accctgccat 120
tcccgcagcc cgaaggcggc ccattcgagt cctgtcattg ttgatggca tcgcgacagg 180
ctacctagtc ctcaaagagt tgggcataaa ggtaggaaag tacgtcgctt ctgaagtgtg 240
tgaggagtcc attgctgttg gaaccgtgaa gcacgagggg aatatcaa atcgtgaacga 300
ygtgaggaac atcacaaaga aaaatattga agaattggggc ccatttgact tgggtgattgg 360
cggaagccca tgcaacgata tctcaa atgt gaatccagcc aggaaaggcc tgtatgaggg 420
tacaggccgg ctcttcttcg aattttacca cctgctgaat tactcacgcc ccaaggaggg 480
tgatgaccgg ccgttcttct ggatgkttga gaattgttga sccatgaagg ttggcgacaa 540
gagggacatc tcacggttcc tggagtgtaa tccagtgatg attgatgcca tcaaagtttc 600
tgctgtctac agggccccgat acttctgggg caacctaccc gggatgaaca ggcccgtgat 660
agcatcaaag aatgataaac tcgngctgca ggactgcttg gaatacaata ggatagccaa 720
gttaaagaaa gtacagacaa taaccaccaa gtgcgaactcg atcaaacagg ggaaaaacca 780
acttttccct gttgtcatga atggcaaaga agatgtttng tgggtgactg agctcgaaag 840
gntctttggc tttcctgtgc actacacaga cgtgtccaac atggggccgtg gtgcccgcga 900
gaagctgctg ggaaggctct ggagcgtgcc tgtcatccga cacctcttcg cccctctgaa 960
ggactacttt gcatgtgaat agttccagcc agggcccaag cccactgggg tgtgtggcag 1020
agcaggaccc aggaggtgtg attctgaagg catccccagg 1060

<210> 917
<211> 713
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (258)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (676)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (694)
<223> n equals a,t,g, or c

<220>
<221> misc feature

602

<222> (703)

<223> n equals a,t,g, or c

<400> 917

```
gggcatcttc cttccttgat tttaagtctt cagcttcttg gccaaacttag tttgccacag 60
agattgttct tttgcttaag cccctttgga atctccatt tggaggggat ttgtaaagga 120
cactcagtcc ttgaacaggg gaatgtggcc tcaagtgcac agactagcct tagtcatctc 180
cagttgaggc tgggtatgag gggtagacac ttggccctca caccaggtag gttctgagac 240
acttggaaga agctttgngg ctcccaagcc acaagtagtc attcttagcc ttgcttttgt 300
aaagttaggt gacaagttat tccatgtgat gcttgtgaga attgagaaaa tatgcatgga 360
aatatccaga tgaatttctt acacagattc ttamgggatg cctaaattgc atcctgtaac 420
ttctgtccaa aaagaacagg atgatgtaca aattgctctt ccaggtaatc caccacgggt 480
aactggaaaa gcactttcag tctcctataa ccctcccacc agctgctgct tcaggataaa 540
tgttacagca gtttgccaaag gcggggacct aactggtgac aattgagcct cttgactggt 600
actcagaatt tagtgacacg tggtcctgat tttttttgga gacgggggtct tgctctcacc 660
caggctggga gtgcantggc aactgacta cagncttgac ctncccaggc tca 713
```

<210> 918

<211> 595

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (18)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (32)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (566)

<223> n equals a,t,g, or c

<400> 918

```
ganacnaccc tcactaangg aacaaagctg gngctccacc gcggtggcgg ccgctctaga 60
actagtggat cccccgggct gcaggaattc ggcacgagct gaattagaca tattctttta 120
aaataagatc cgttgtcagc catctaaaat gtttttataa attcactactt acattctttt 180
```


603

```

ttgccggttg cagtcagcct ttagtgccaa gagagaacat tacagcatgg atgaatgcaa 240
ttggtttgat catcactgcc ctaccagtga gttaataatt gtgatttgta cttagtgatg 300
aaatacagcc agctgttcca tgtcagcaaa aagaaaaaga tgcataatagg atgcccttgt 360
acgggacgtc atgcaaatga atgaagtatt ttatgttttt aaagtttttt catattatta 420
ctgctttaaa aatctacagt gactagtttt tgcttttctg tattagatct aaatatatct 480
atgtgactta cgggtctctg cattttcttg taccacctta cctatccaac tttagttttt 540
acataatagc ttgatctact cttggnact taacgtgttg tataatctaca gcctt      595

```

<210> 919

<211> 278

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (180)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (238)

<223> n equals a,t,g, or c

<400> 919

```

ggcagagctt ggctagattt gaagtgtaat agattaagga aagaaaatcr gttatatattct 60
tcasaatagt ttgtctgagt tcatgtctca tgactgtcat gtgttgagtt atctttctgg 120
caagtggaaa tgacggagga gccttaacac gtgtctactg tggaatgttg ttgctaaagn 180
gtaggagaga gctggccagg cgccgtggct cagcctgtg aatcccagca ctttggngng 240
ccgaggcggg aagatcacct gagatcaaga gtttgaga      278

```

<210> 920

<211> 347

<212> DNA

<213> Homo sapiens

<400> 920

```

gggatgcgga ccaccttttg cagaactcat atctcgagca gtttaaattg cttgtgcctg 60
ttaacaagaa tactgaccag aatgctcttc atgtagctta tacagttggg tcacttcattg 120
cggttcttga catgtttatt tctaccetta atgcaatgaa atgtttcatt aataaaaaaac 180
cactttatat aaaattgctc tagaagtcac atgtcattgg atgtcctgtt gtttatggag 240
tttccctgga aagatgttcc ttgacagatg cagccctgag tcacacactt gggccatgtc 300
tgatctagag ttcgctgtag tggacagtta caatcagccc tcgtgcc      347

```

<210> 921

<211> 153

<212> DNA

<213> Homo sapiens

<400> 921

```

gttgtgaagc atgcacggga aaggcaccca ggtcaggggg gatccccgag gagatgcctg 60
agctgaagga ttgtggttgg ggaaagcgta gtcccagcaa ggaagcagtt tgtgggtaag 120

```

604

tgctgggagg tgagtggagt gagcttgtca ggg

153

<210> 922

<211> 930

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (46)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (170)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (173)

<223> n equals a,t,g, or c

<400> 922

```

ccccaaggcc gtggggacca atggtaaaaa ccaattacca ccttgntgcc gcaccttaaa 60
gactggatgg tgtatattat tcacaattac atcctctttc ccatagcctg gcagaggaaa 120
gtagttagca gcacggaaca atttcaacat ctcactggag tctccaaaan ccnagcagat 180
actgcaggat gtcattaagc aacttactgt cacttcacac catatgtggc agtaagaaac 240
ttaattttta aattaaaggg cacgcataag ctgatttcaa atattttaag tccaggctac 300
tctcttttaga tacaatgttt tgaacacttg tatagaaatg tttattttaa aactgttcta 360
tacaagtgtt caaaacattg tatctaaaga gagtagcctg gacttaaaat atttgaaatc 420
agcttatgcg tgccttttaa tttttttttt aagtttctta ctgccacata tgggtgtgaag 480
tgacagtaag ttgcttaatg acatcctgca gtatctgctt gcttttggag actccagtga 540
gatgttgaaa ttgttcctgt gcttggtaac tactttcctc tgccaggcta tgggaaagag 600
gatgtaattg tgaataatat acaccatcca gtctttaatg tgctgcaaca atgtagtaat 660
ttgttttttt catttgttcc cactgccttt gtgtacatag aaaactttaa aatttcccc 720
agtctattag aagttaagat gttcccta atattaaata tgcctttatt cacaatttgt 780
tttttttagt tattcttaat gcattataga attaagtatg actttgttta tttttattac 840
agtatgtagt tattgacata ttgtggtttg cagaattatc aattgtataa actaaacctt 900
taaattaaaa aaaaaaaaaa aaaaaaaaaa

```

930

<210> 923

<211> 1358

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (681)

<223> n equals a,t,g, or c

<400> 923

605

```

tcctaccaca aattctacat caagaagaaa gttttaaagt tagactggat ttatttgtga 60
ttttatggag cacaataagg tacattgaga tagcatacta aaggaggcca aatacaggaa 120
gcatcatctt ttcttattct cttactgcct ggattttccc actgacctgg aattgtgcac 180
agttctacaa aggacaattg acattgtttt ccttttacta agtagtgggt ttcccttaag 240
gtccagactg aattttgaga cctgtaccag gattgccttc tgtgtgactt tttcttgcag 300
gatctgacat cattacctat ggggtccatat atttgtgata ctttggtttc gggaacatca 360
cttttagaat gttgacataa aatgcaccca cagaatgccg ttttatcaa aagtaacttt 420
ctagcaaaat ctacagcagt aggcatttgg aatctgcatt tgagacctct gcagtcattt 480
ggtcattcca gcaatctatg tccaggttgt caatttcaga ggtctyatta rtctatacag 540
gtaccaatga gctttcagat gttcaacacc tacccttggc ctaactgctg ataaccaacc 600
ataacccttg cagatgcatg cwtgttttct gcaccttgc atcatttttc artccatttt 660
tcacatgtat acatagtgtat natttttaaa tgcaaccctg atttcacatg cctcatgttg 720
aaatatcgtg tggcttattg kggactwaaa gkgtaacatt cyccytawgg takgtaagga 780
cttttgtaya aaccaatgcc tatctatcya wcatttctga aaactttttc cycctakgca 840
atattttctg gcctctgtga acaacttgta gtcccttgag attyctatta tcaactawgk 900
ttttgcaa atctgcaattga aatgcccttg ttcccttgta atgcctattg aatctatatg 960
aacctgtacg tgtgtttctc actgtgataa tataatcatt gcattgtttt tctttccac 1020
tagaaagctt ctagaaagct agkactatct tttttgtctg tgtaattttt gcatcacaag 1080
ctatatttaa atgtgggtgc agtgagtggc tgttttctgc cacatggaga aacatggtct 1140
gcagtggag agagaatga agccatgatg aaagcaaaat caagaaagag tcccgattgt 1200
gttccagtac ctggttcttc tggctctcat gtccaggtcc acctctgcc ttttcatgtc 1260
ttgattgttg aattcttctg tgagatactc caaatatcct aataaattct catgtttgct 1320
tcaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1358

```

<210> 924

<211> 79

<212> DNA

<213> Homo sapiens

<400> 924

```

gcccackcgt ccgcaagaca ctcatgccct ggcaatgtgg ctgccagaaa ctggtggggt 60
agcaacaaca ttctctggc 79

```

<210> 925

<211> 1426

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1350)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1391)

<223> n equals a,t,g, or c

<400> 925

```

tcttcactct gatgagggtc cagacttgat aacgcccgtg gtgccccatc cctataggag 60
ctggtgagat tgcagcctgc tgcctcccct ccatcagcca cagctattgg atttcccacc 120

```

606

```

cagaatcttt aggtaaatga gatcatgatt ctggaaggag gtggtgtaat gaatctcaac 180
cccggcaaca acctccttca ccagccgcca gcctggacag acagctactc cactgcaat 240
gtttccagtg gggttttttg aggccagtg catgaaattc atcctcagta ctggaccaag 300
taccaggtgt gggagtggct ccagcacctc ctggacacca accagctgga tgccaattgt 360
atccctttcc aagagttcga catcaacggc gagcaccttt gcagcatgag tttgcaggag 420
ttcacccggg cggcagggac ggcggggcag ctctcttaca gcaacttgca gcacttgaag 480
tggaacggcc agtgcagtag tgacctgttc cagtccacac acaatgtcat tgtcaagact 540
gaacaaactg agccttccat catgaacacc tggaaagacg agaactatct atatgacacc 600
aactatggta gcacagtaga tttgttgac agcaaaactt tctgccgggc tcagatctcc 660
atgacaacca ccagtcacct tctgttgag tcacctgata tgaaaaagga gcaagacccc 720
cctgccaaagt gccacaccaa aaagcacaa cccagagggga ctacttatg ggaattcatt 780
cgcgacatcc tcttgaaccc agacaagaac ccaggattaa taaaatggga agaccgatct 840
gagggcgtct tcaggttctt gaaatcagag gcagtggctc agctatggg taaaaagaag 900
amcaacagca gcatgacctg tgaaaagctc agccgagcta tgagatatta ctacaaaaga 960
gaaattcttg agcgtgtgga tggacgaaga ctggtatata aatttgggaa gaatgcccga 1020
ggatggagag aaaatgaaaa ctgaagctgc caatactttg gacacaaacc aaaacacaca 1080
ccaaataatc agaaacaaa aactcctgga cgtaaataat tcaaagacta cttttctctg 1140
atatttatgt accatgaggg gaacaagaaa ctacttctaa cgggaagaag aaacactaca 1200
gtcgattaaa aaaattatct tgttacttcg aagtatgtcc tatatgggga aaaaacgtac 1260
acagttttct gtgaaatatg atgctgtatg tggttgtgat tttttttcac ctctattgtg 1320
aattcttttt cactgcaaga gtaaccaggg tttgtagcct tgtgcttctt gcctaagaga 1380
aaggaaaaac naaatcagag ggcattaaat ggttttgtat ggtgac 1426

```

<210> 926

<211> 724

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (704)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (714)

<223> n equals a,t,g, or c

<400> 926

```

ngaggaccag tattttgtta aaaagggcat gcaggamayc ttctctgcct cctacccttt 60
ctcatctccg gctccatctc cagctggccc ccagatcctg tggcgacggg tccccatggc 120
agccacctgc tgacctatca ggactcycta tagaggaagt gtccaagtca ctacggttca 180
ttggtttgtc cgaagatgtc atatcattct ttgttactga aaagattgat gggaacctgc 240
ttgttcagct aacggaagaa atcctctcag aggatttcaa attgagcaaa ttgcagggtga 300
agaagataat gcaattcatt aatggctgga ggcccaaaat atagccaaat aacccccggc 360
cagcatggaa caaaactgat caatgcgtgt gctagaaggg gtgggctggg acacaatttc 420

```

607

```

atgttttttgc actaaaaaacc ttctctgttaa atagggataa gagaaactct tactatgcag 480
attacgtttt tgaatggtga acaggctatt ttgtacatca ataaaaatgc tgtacagaac 540
acttgagggt gtgccttgta cgtcactcaa caaacactca gcagctgcta aaagaaaaaa 600
aggcatgtgc agagaaatca ttcttacctca agtaggttta tgtgagaagg tatgatattt 660
attacaaaat agccaaagct gaaagacata aaaatcttta aaanaaaaaat aaangggcgg 720
cccg 724

```

<210> 927

<211> 641

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<400> 927

```

tnaataacat caatgatgac tcctacagta tatttagtaa aagtgagaat gagtgaaaaa 60
gccctactat gtttttaaat agcaagtgtg agctcagtg tagagtggat atacacaccg 120
catgttttca tatgtggcac ttttatgtat catgttgggt tattgttcta gactggactg 180
ttaaatacta tgtttgaggc tgggttgta tttttataac tgtcttggtg ttttatggcc 240
attattttatt acttttgata cacagaatga gctgcatgca tttatagagc aataagagga 300
tgtattttaat gtgccttggt ttttaactgaa taagaactgg aagcatgaat caataaaaact 360
gattaaaatg gtctatttgc tagcattttg atgttacttg cagtcagata actttgatta 420
ctgttgaaatg ttaaaaaaag tttgaaaata tttttacaaa ctgtgttttt gatgacacaa 480
aagtgaaata tctacagaga tagatgtaat tttataagac tgccagaatt atttgtatta 540
atgtgttgct gtagecttta gggcatgact tctgtatttg tgcaatccta ttctacaatt 600
acattcatcc tattacaact caaaaaaaa aagtcgacgc g 641

```

<210> 928

<211> 245

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (239)

<223> n equals a,t,g, or c

<400> 928

```

cagctccac catggcggag accaagctcc agctgtttgt caaggcgagt gaggacgggg 60
agagcgtggg tcaactgcccc tcctacctgg acagcgcgat gcaggagaaa gagttcaaatt 120
acacgtgtcc gcacagcgcc gagatcctgg cggcctaccg gcccyccgtg ccccccgct 180
agcgcgccac ccgcgctcta tcgccaata aaggcatctt tgycgggaaa aaaaaaagna 240
aggaa 245

```

<210> 929

<211> 297

<212> DNA

<213> Homo sapiens

608

<220>
<221> misc feature
<222> (24)
<223> n equals a,t,g, or c

<400> 929
agagcgagac tccatttcaa aaanaaaaaa aaaaaaaaaa aatcacttgt agtcttggtg 60
tggtatcaaa gaatagccac aattagctga aaaggctatt ttaaaaactt ttccaactgc 120
gtatctgtgt gaagtcaact tacttcaaca aaaaagtttg gatgtagaag cagctgtaag 180
aattcaactg tttattataa caagatacta aagagactgt aaaatgccac ccttctcctt 240
ggwttgtttt ggaagttatt cttcataaaa aatgttaacg tgggctgggc atggtgg 297

<210> 930
<211> 579
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (474)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (499)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (571)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (572)
<223> n equals a,t,g, or c

<400> 930
gctcgtgccg ttgagaattg tataaggact gtattgtata ttgtatgaga ttgtagatcc 60
aggatgagtc acagtatttt tgaagttgta gtaaattggaa tgaactagaa agatagaagt 120
taatgttcgg aaggcaggag acttaaaagt tagattgtaa aaatttgcaa ttaggagtaa 180
taacgtgggt ttgagctgaga tcatgagatt gaatagctag atactgaaga tagcaagtac 240
attggaaatg atgaggtcaa atgtcaaaga agataagtaa tttaaatgag acatcaaaat 300
aatggcagtt aagtcagggt gtaaagactg caaagaatga gggaaagtga ctaaacattg 360
ggagagtgat caatataatc aaatagtatg agattccaag ctggaggggt ttgaggagaa 420
ggaagtagaa gtattctgca agaggacact tattttactt ctagaggcag tggntagagc 480
actgagggtt gagaactant ctgcacttaa ggggcgacat gagaagcagc agcatcagtg 540
agagacagat gaccataaga atgaaaatgt nnagggaaa 579

<210> 931

609

<211> 670

<212> DNA

<213> Homo sapiens

<400> 931

```

gtttgaactt tgaaaactgg gcaacgggga gaacctgctg tgaaacagac agctttctat 60
tgtgtctaga gtagcgcaga ctttctaaga aatggatgtg gatagagtat gtattggtgg 120
catgcgcctg tagtcccagc cacttggagg ctgaggcagg aggatcattt gagtccagga 180
gcttgaagct ataatgcgcc accatgtctg tgaatagcca ctgcactcca gtctgggcaa 240
catagcagga ctttttctct taaaaacaaa aaagagttcc ggtgaaatgg ataaagcaga 300
ctgggaagga cgaagcctgt kgggctggtg gggctgagtc ccaaccagct tcatcagtgg 360
tgatcctttt gaacttgtac caaagtttcc agaacagagg cggcatggat ttacccttgt 420
gtgatgctcg atctcagaga tgggactctg tgattggcct ttgttgaact gacaggtatt 480
tgaatgtgca catcctacgt aggacatcgc attgagtgtg ggcatagtgc cagggcagct 540
tgcctcatcg ttaccaaacy cgtttcctgg gatctgtcat tctgtccatt gtgctttctc 600
ctgttactct agcagttcag tgaatgtaag attactactc tgtatatgga actttgaaaa 660
caagaatgaa                                     670

```

<210> 932

<211> 1755

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<400> 932

```

gactaggnga agatgctcta gaatttamcc aggttttttaa atcagtaatt targattttct 60
aaccattkga acaaaatttta cttacatgta tgcacatgtc atttttcgtg tttctatttt 120
tatgttctca aaggtaggat aagggaagga aggaggaaac agcccatttg gggttcaaga 180
gctagctctg ctaagggctt gtaagctatt tctattctgc cctttgggtct ttttcttgtt 240
tgtcttgtct ttatttttaa atgaaattct tgaagctatg tattgaattt tctagtatag 300
aggatgtgac ttccacctcc aaattccatt taactgattc ttttaaaaga aagataggcg 360
tatatacacc acgcaaaaat aataataagg tacctatgtg agaattgcaa attatacccc 420
agggtagcat ttaggcagcg tcggcaaaaa gtgagttaat aaatcagaag ctacatatta 480
aaaaaaaaat cagtcaatcc gtcgtgtgtt taawtcttgc ctaaaagtaa tggagatatt 540
gttttgcttt ggtaaccagc aatttttaat ttttttttat tgcccgc aaa ttgagattgt 600
tttgtaaaaa tctgttgatc tagcagcaag tagaattatt caactggaat cttgtattct 660
attcagagct taattttccg ttaaggaaaa aaatgagctt cagtttgtgt tgtgatgtgt 720
ataatttgca tgctgaatca caacatgctt ggagagattg tagagactct ttggtaaata 780
atctaaccct tacaatttyc cgtttatatg ttaacmtttt tctataatat gagtgccttt 840
ccaatgcaca gatatttttt atggctgtaa tttctctgta aaaataattt ttaagcatat 900
attttattct ttttttgcaa caaccgagat ttttccaaga ttgttctgtt tcccctcgcc 960
ctcctagctc ccgcccccg cacttcggcg cttgtatttt ctaattattc atgggtgcca 1020
tgttgagtgt ttgtaatttg accaccacag gtaagcttcc tgtttacttg aacactcagc 1080
ctcatctccg gtgaatgaag ggaaaagcac agatgggttt ctcccaggca cagctcactc 1140
caaagggtgc ttcatagagc caaccagcc tttctcaagg gagcatttcc ccacttaatg 1200
tgtttatcag catctttctt ccgccaagaa ttcaagagca ttttcaaaaat tgatagattt 1260
tggtgcagtt ttgcaagttt ccgtggaagg ctgtctcccc cttctgggat ccacccccat 1320

```

610

```

gtcgggacca gatcggtgc agggagtcac gtttatgaaa tgttggtggt tttttttttt 1380
ttttcattca tactagaagt gtttttataa cgaaaatctg cactttacaa ctctgcaggc 1440
catgcatgca atggtgattt acagccttgt ttacgtgtaa ttctccagg tgatttatcc 1500
caatttatgc aaagatccta ttttaaacag acacggagaa gtggttaaccg tttcctaaca 1560
gcagcaagaa tgcccccttc gtttgccctgg tgaaaagaac tgacattaac agcagcttgg 1620
aggcttcgag gaggtgggga cgtggcctga gctcgggacg gggggccagt gcgggttgtc 1680
ggagcgtggc tgccccggca tgtctctgta tttatcaata aatctcccgg ttgctctggg 1740
aaaaaaaaaa aaaaaa 1755

```

<210> 933

<211> 690

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (39)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (687)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (690)

<223> n equals a,t,g, or c

<400> 933

```

tttccacgcg tccgcccacg cgtccgcccc ngcgtccnng cagggcagag aatcccccca 60
attcctgcct gaaatctctg gcctcaccac tgctgggggt tggactgaaa accctcctcc 120
ccaatttggg ggggtgttgc ccatactgc ccagctcctc tgactgcccc ccctgaattt 180
agggtggggg tactagtac tgccaatgtg tgtatgggac ttgctggaaa acgggggatgc 240
ttgcccctct ccaggactat tgagcccaga gagagctgtc ctctcattgg gtgaactgat 300
tgaggaaggg tctattgtct ttttaaattg cacaatttta agggtttgag ggtacagtcc 360
cttaacctgc cacgggaggg ggcccccaaa ctttcttccc cccacacttc tggttttctg 420
tgtggagggg gagcagggat atctaagctg tgggtgtgaaa gggtaggaga gatgctggag 480
gtgggggtgc tgtgttctag acccccata ttatcccagt gtcccctgcc cccctcttcc 540
cccaccccat gcccacaatt ctgtggcgca tccagattgt gaaaatgtac aataaatgtg 600
taatgagtaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 660

```


611

aaaaaaaaa aaaaaaaaaa aaaaaanttn

690

<210> 934

<211> 1711

<212> DNA

<213> Homo sapiens

<400> 934

```

cgagatgtac cggtagacagc aggcacagga ctccggagggc gaagagaaga gcgatgggga 60
gttgggtggtg ctacacagact gatcccggtt ggggtgggcy gggcccttct cctctgggga 120
agaccttgtc ccaactcgat gggcacagcc agccaacctc agactatgtt ggtacttgga 180
cttgttcgtg cccagagat gggcaaagct gtgcacttgc agatacatte atgaggggag 240
aggcgccctc ccttcctgag gagctgttgg cctgggtggg cagggaactgc agtatgggca 300
tgggctgagc aggcctgagca cctcagcctt tagggcttat ggccagggga cactgtatga 360
ctctcctctc ctgcaggtgt ctatccacct ggggtatggc atctaccgac ctgtctccct 420
ggggtcacat gctttgtttc cattcttgtc ctggctggac cagccactgt gggaccaaca 480
cccctyccac actccccag actgctcgtc tatcaccagg atcgctttgt actttgtgca 540
aaagggctctg gctgtccctt gctgttttca tctctgcaag cctattgtgc ctctggctgc 600
tgtatgtgtg cgcgtgcacg tgtgtgtgtt tcatctgkct attcactgca caagatatat 660
awtgagtgcc cactacgtgc caggcaactgt tgcctgagttc ctgtgggtgt gtctctcgat 720
gccactcctg cttctctggg ggcctcttct tgtgcttctc tttgtcccca aattgctacc 780
tctttgtcag tctgggtgtc tcagggtctg tgtgtccttg tgtgcatttc tgtctctctc 840
tgtcctcgtc tctctgcaag gccctctatt tctctcttct ttgggtgtctg tcctttgccc 900
cctgtgccct ctggattctc tgggtctatg taggcccctg gtctgccctg gctcatcage 960
cttcttgacc tctcctgccc ctccccctca ctccctcctg ctctgcagtc ggttccccacg 1020
gagccatttt tagctctgat cagcatggga atgtgcctcg gcctccaagg ggctttgtcc 1080
tggtgcccc ccccttggtc ccaacctgat cccacgaggg agttgggaca ggaggattga 1140
tggtgctccc ctctctgcca gcgtcagarg ccctggagag gggctgtcca tggcagctgg 1200
tctttattcc tccctcatga gcacaggggc ggggggggtcc ccattcttgg aagaggttga 1260
gaagactcct gggcttcagc ctctccacc cagccctgcc cctcacctgc ctgccctccc 1320
ctccccact ctatactagg gactggatct cagcctctga tcagtttcac aaagtttgtt 1380
ccctaaggaa atcaaataccc attgtcacct aactctgaag atctaaatag cccttggatc 1440
agtaygggaa ccccaaaty cccagggcca gatgtggagt ctgtgtctgc ccccgctctc 1500
tctccatcct caaagcccc acttctctcc aggcctgtttc tttttttatg actgtaaaca 1560
tagatagtgc tttattttgt taataataag ataataatga gtaacttaac cagcacattt 1620
ctcctgttta cactcggggg atttttttgt tttctgatga cataataaag acagatcatt 1680
tcaraaaaaa aaaaaaaaaa aaaaaaaaaa g 1711

```

<210> 935

<211> 870

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (48)

<223> n equals a,t,g, or c

<400> 935

```

tgaatctttc attcttacct gaataatttc acactctcca ttactctngg tctcctaag 60
gtctcctgtg gagagtgaat atttccatcg cacttacttg ctactttcaa tgttctcaat 120

```

612

```

gtcctattgg actcactagg gcttagctct gtgggttgaca catagrtatg cagmttttca 180
aatgtctgga atgtgttact ctactacatg ttttttgaaa tggaaacaga tggaatgact 240
ggctactgta ataatactac agcagctcca taatgcatga aatcctaata agtatgtaat 300
attataagta tcttttcaat acaggtttca ttgctattat tcatcagttt ccgtttagat 360
tacctgttcc gatttaataa cctttgataa atttgaaaaa tttgtctttc aaacagagcc 420
tgtagtatt aatgaagaaa atgagggatt tgaacataac acacaagtta gaaatcaagg 480
aattatagct ttgagttacc gtgactggga ggtaaagctc tgctgttgc ccctgcatag 540
ttctgactct gccttcactt gcagtaagcc cagtgcctaa atgttcatta ttgtctgcca 600
ggagattgtg aagacctttg agatttcaga gcctgtgatt actccaagtc agaggcagca 660
gaagccaagt gcttgatgct agctgaagga ctcaaagga tagtgaagtc caaaacggaa 720
agcggcatgt attgtacata ttgtatgatt caacattttt aaaggcagat tgtttttagt 780
aaaatgtagc ttttgatagt taataaattt gtcatgggtt tctttgatta aaggaaactc 840
accgccatat tcacaaaaaa aaaaaaaaaa 870

```

<210> 936

<211> 443

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (403)

<223> n equals a,t,g, or c

<400> 936

```

aagggaatct taaatgggaa attcgtcant gccctaccgg tccggaattc cggggtcgac 60
ccacgcgtcc tagtttcaat kaactcgaat gcggctgagt gcctgagagc acctgttgct 120
gtgggtatca tcaccgtgtg tgttttctgt cttctcatcc acttttcttt gtgcagtctg 180
cacacacacc attaaaggct gatgacagca tttttacgaa ttgcaaacag aggccagcgc 240
ggtggctccc agcacttttg gaggccgagg cgggtggatc acgaggtcag gagttcgaga 300
acagcctggc caagatgggt aagccccgtc tctactgaaa atgcaaagat tagctgggtg 360
tggtggcatg cccctgtgtg tcccagctac tcaggaggct gangcagaga attgcttaaa 420
aaccggggag gtggaagttg cag 443

```

<210> 937

<211> 490

<212> DNA

<213> Homo sapiens

<400> 937

```

agctggagag gaagggatga aaccagctgc tgttgcaaag gcwgcttgtc attgatagaa 60
ggactcacgg gcttggattg attaagacta aacatggagt tggcaaactt tcttcaagta 120
ttgagttctg ttcaatgcat tggacatgtg atttaaggga aaagtgtgaa tgcttataga 180
tgatgaaaac ctggtgggct gcagagccca gtttagaaga agtgagttgg gggttgggga 240
cagatttggt ggtggtatct cccaactgtt tcctccccta aattcagagg aatgcagcta 300
tgccagaagc cagagaagag ccactcgtag cttctgcttt ggggacaact ggtcagttga 360

```

613

```

aagtcccagg agttccctttg tggctttctg tatacttttg cctgggttaaa gtctgtggct 420
waaaaaatagt cgaacctttc ttgagaactc tgtaacaaag tatgtttttg attaaaagag 480
aaagccaact                                         490

```

<210> 938

<211> 1165

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (17)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (23)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<400> 938

```

gacagtcacn gtacngnaat tcnggccagt ncgacgctgc aaggggggacg cgggtcggac 60
gcgtccggct gtggaagaga gcggcggccg ctcacaacat gcacagcctg gcgacggctg 120
cgctgtgccc tactacactg gcacaagtgg atagagaaaa gatctatcag tggatcaatg 180
agctgtccag tcctgagact agggaaaatg ctttgctgga gctaagtaag aagcgagaat 240
ctgttcctga ccttgcaccc atgctgtggc attcatttgg tactattgca gcactttttac 300
aggaaattgt aaatatattat ccatctatca acccaccac cttgacagca caccagtcta 360
acagagtttg caatgctctg gcattactgc aatgtgtagc atcacatcca gaaaccaggt 420
cagcgtttct cgcagcacac atcccacttt ttttgtagcc ctttttgcac actgtcagca 480
aaacacgtcc ctttgagtat ctccggctca ccagccttgg agttattggg gccctgggtga 540
aaacagatga acaagaagta atcaactttt tattaacaac agaaattatc cctttatgtt 600
tgcggaattat ggaatctgga agtgaacttt ctaaaacagt tgccacattc atcctccaga 660
agatcttggt agatgacact ggtttggtct atatatgtca gacgtatgag cgtttctccc 720
atgttgccat gatcttgggt aagatgggtc tgcagctatc caaagagcct tctgcccgtc 780
tgctgaagca tgtagtgaga tgttaccttc gactttcaga taaccccagg ttttcagatt 840
tgactttctg ctggtcattt tttcaaagaa aatgaaacgt ttaaaagtgc atctgataat 900
actgctacca tagttttgtt ttcactgctc atctcttatt aagggttttta accataaaaac 960

```

614

```
tgaagcaatt tctgtaaaga cacaaattga taacttagta tagaattaaa attcattaag 1020
ttatcataag tttgatgata tccttggttaa tgtactgatt tttgaattat tttatttgcc 1080
ataatccata tattttctaac atgagtatatt tgacagtatt taataaatca gaaagctggt 1140
tgaatggaag taaaaaaaaa aaaaaa 1165
```

```
<210> 939
<211> 448
<212> DNA
<213> Homo sapiens
```

```
<400> 939
tccgtctcct agtgtccgga atcggtctgtc agctccctgg ctgttagtac cttctttccc 60
ggagtcctgg tccacgagtt ggattttactg ctgtcgcggg tgggcctcac gccattccct 120
gtccctcggc cccctgagtg agtccggtct cccggcgaaa gtgagcgagg tttgcccgga 180
gcgcgcacga ggggaaaaatg cctaaaaaaaa agactgggtgc gaggaagaag gctgagaacc 240
gccgagaacg tgaaaaacaa ctaagagcat caagaagcac tatagattta gctaaacatc 300
catgtaatgc ctcaatggta tcagcttttt ttgatatcag ttggtagttg gaaaaactat 360
atactatttt atctgacgta tacctgaata aaatttttagt gaagacagtg ttttttggca 420
ttatagtttg ttggtgaatt tagtatct 448
```

```
<210> 940
<211> 932
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc feature
<222> (897)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (929)
<223> n equals a,t,g, or c
```

```
<400> 940
gagagtattc agcacaataa tgttcttaaa cccatcaacc tactttcaca gcaaatgaag 60
ccaggcatga aaagacaaaag gagttttatac agagaaatcc tcttcttatac attagtgtct 120
ctaggaagag agaattattga tattgaggca ttgacaatg aatatggaat tgcatacaat 180
agtctgtctt cagagattct tgaaaggttg cagaaaattg atgctccacc aagtgccagt 240
gtcgagtggg gcagggaagtg ttttgagcgg cctctcattt aaatagagat tcactagaat 300
gttgacacac aaggcttggg gattagattt catctggaaa cattcaagtt tttttttcca 360
aatcgtaaga actggtgaat acggaattga agtaactctt ggggacaata tataatgaat 420
tatgattcat attgcattac ctgaaatat gaagtgccat ttgaatgtcc cagggtttat 480
taatattgaa gatattcaac ccctgaactg cttttctgcc tctgtggaaa actactttgg 540
gattcttcag tattttagt agtttgatag aaataatgag gaaccatatt cattctaggc 600
attgtttata tttgaagta ctgagtttga ggaatggcaa attaaatttg cctaaccctc 660
aaaacaaatg aaatatctca attataaaag caacatggcc gggcacggtg gctcaggcct 720
gttaatccca gcactttggg aggctgagca aggtgggtgg atcacttgag gccaggagtt 780
cgagaccagc ctggccaaca cggtagagac ctgtctttac taaaaatata aaaattagcc 840
aggcgacca ctgtagtccc agctacttca ggctgaggca ggagaatcgc ttgaacngag 900
```

615

gcagagggtta catggagtgg tgatcacgnc at

932

<210> 941

<211> 735

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (640)

<223> n equals a,t,g, or c

<400> 941

```

gtggcacatg aaattttctca gatcactaat gatcttgcac agattattat tcctaaagat 60
aactcatctc tcttgaaaag gttggcatgt atagctgcat ttttttgtgg actcctcatc 120
ttatcatcca ttcaagataa atcaaaacat taggttccaa aaattctaaa aaacctaaac 180
tcttcaggct acctttgtgt gtctctagaa gagaaaagca tctatctgga gatataaatg 240
tgtatgtaaa tataaacgtt tgtggcaaga ggacagttct gtgacatctg ttgaacatat 300
gtggttgtat atattggaaa tgtacatatc caatatgaaa tactaaraca aacaaacaam 360
caaaaaacca gaatgcattg tataggattg catgtgaagt cttttctact gaatctatat 420
ttccatttgt aagtgatttt aagttaacat atgaaggcag ggaaatgatt acctttccag 480
taaaaagtat agataattta attaacttag tgacaccacc aagtgttttg aatataacta 540
aatgtgtggt aataagactg tctgcacctg tattcattgt ggaacttcct ctttcmttgg 600
aaactttctt actcaagaat gacggcagta ttgttttctn atatgtgcca atgaaagtgg 660
gatgataaac agtatgcctt taatttataa tgtgtccttg ttcctgaatg ttgtttcctg 720
gaaatgaatt ttcct                                     735

```

<210> 942

<211> 858

<212> DNA

<213> Homo sapiens

<400> 942

```

ggcacgagtg cgtctccagc gtctccagcc gtagtctgaa gggagcaggg tggcgactct 60
ggtgacaggg cgatgccagt ccctccactc cagaggagaa cgaaaccacg acaaccagcg 120
ccttcaccat ccaggagtac tttgccaaagc ggatggcagc actgaagaac aagccccagg 180
ttccagttcc aggggtctgac atttctgaga cgcagggtgga acgtaaaagg gggaagaaaa 240
gaaataaaga ggccacaggt aaagatgtgg aaagttacct ccagcctaag gccaagaggc 300
acacggaggg aaagcccagag agggccgagg cccagcgagc gagtggccaa gaagaagagc 360
gcgccagcag aagagcagct cagaggcccc tgctgggacc agagtcccaa ggccctctgct 420
caggatgcag gggaccatgt gcagccgcct gagggccggg acttcaccct gaagcccaaa 480
aagaggagag ggaagaaaaa gctgcaaaaa ccagtagaga tagcagagga cgctacacta 540
gaagaaacgc tagtgaaaaa gaagaagaag aaagattcca aatgaatcct tcccagccgg 600
ggccttccga ccaactcagct gtcagggcac tgcgggggca gacacctctg gcctgaagtc 660
acagcagagt tcaccccaga gcgcctgggc gcatcttggt gcatgcccac gggctgccga 720
gtcctgccct ctccgccacat tccccccaag ttacattccc aggaggacct ttttaatggt 780
ctcaatcgtg gctctcagac acaaataaat ttttttgtaa actctgaaaa aaaaaaaaaa 840
aaaaaaaaaa aaaaaaaaaa                                     858

```

<210> 943

<211> 1345

616

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (773)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (968)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1154)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1206)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1299)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1316)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1322)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1339)

<223> n equals a,t,g, or c

<400> 943

```
cccgtccaca atgcagcaga ctcttcccaa ggccacctag caagcaaggt tgatcggatc 60
atctaaactg gccgcctcct gaatatttca ctgaatcctg gcgttcatgt tgaagcagac 120
aaaatgagaa aggaggaggg cattgctcac ctctcaatag cttttttcgt tcaagttcta 180
tgtctttatc agctcttgcc tgtgatttta cccaattca accttgggag tgggaagaat 240
atgaacagat aacccttggc ctaacagctc catcaaacct ccttgagagc aactacctag 300
gccaggctag tgagtgcctt gtgaggaagc tggtcagaag gttccctcaa ctccttcctg 360
gtcctcctgg aactgcaga aaagacttag gggatcccca gcagaggcca attgctctcc 420
```

617

```

ttccttccct gccccaccag gaaaggaata acgtccacag acttgaagca gatagtgaag 480
tagatctgtg agagggttcta ggtacttagt gtgtagactt tgacgaatat ttctcaagtt 540
gggagccctt gttaaaaaatg atgtttaagg gagtggttgg ggggaagatg aaggcatgga 600
ggaggaagaa gagaaggaag cccttgccat ataaaaattca tgcagactaa acagtttccc 660
tgacagaata aataaaagtgg atgtaccccc actccagaat caaaagcaat ttaattaaag 720
tctcttaagt tgtaaagagt tttaaatgat ccgtgttgaa ggcgaatsct gcnaaatgca 780
gtgggtctga cgtcagctgc cgggcctggg ctgggaggcc atttgctatt ctgtttaagg 840
caggctggat tgtcttattt tggaaccagc ttgggtggggg gtttgctttg ctactgcttc 900
tgagccctga gcttcaaagg ctgaaattaa tggatgaacaa aattgtgcgg ctctggccat 960
cccatgcngg gcaagcccat tgagggttat cattaagtaa agaaataaag agggggaaaa 1020
aagcctgcct gttccaaaaa cctcatcaga taatgacctc agtgattggg ttttcattac 1080
caaacagcat ccagagatta tcaaccata gaagaaggga ggggaaaaaa aaaaaaaa 1140
ggaaaaaaca ctgnccttct ctccctctct tctccttttt tttgcacatc ttttctttaa 1200
aactgncaga tcatttcaag tatttcaa atccaggaaaa cagcctggct gctgctggat 1260
ttgaagtgga atgggggcaa aaagccact ggctgacanc cgcagtccca aagggnntat 1320
tnaatcttaa aacttgccng gaata 1345

```

<210> 944

<211> 1829

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (601)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (918)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1411)

<223> n equals a,t,g, or c

<400> 944

```

gaattcggca cgagatttat tattatttta ctccctgcagt gagcaaatgt gagtaacatt 60
tgaatgaaaa taaattttca gcttattttac atgaggtaaat aaacttgact ttatcaagta 120
attgtgggag tggggaataa acctcatctg gggatgggaa ataaacacca ctataaagaa 180
accactaaga tttgaatgcc ttgcttggtt taagtttggt gatgcaggta ttgcattgat 240
tatgcatcag ggaactggaa accaaggcat tcgttctttt aagaaaatag attcttaagc 300
ataggagtct catgttttaa gaactatttc taagtccaac taagatcgag tttttctgtc 360
tctattggca aktwtyaaga ggcataaact ttaaagaaaa agggaaaatg tgataaatta 420
atggaataga ctccataggc ttttattcca acttttataat gatgcaagtc tatgtgcttc 480
tgtctgactc acttatttct gtwatcaaga tgaactagtg aagggaattt ctctctcaat 540
gctaaattaa ttacatgcat tggggatagt catccagaga gagggaaagg gaccttctga 600
ngttgtcacy cagwaaataa ttgcctgagc tgagaatggc atgtgggtca cagaattggg 660
gtttctggat ttaggaaata ctccctattt tttttccact cctgctggct aagccaagaa 720
tggcaaatat gtgttcatgc tgctgcattc ccttcaggc ccataaggac gttggcaatc 780

```

618

```

cttcatagcc ttctcacagg cggaacctgg attaatttaa gaaccctttt gtgcctggct 840
tttcaggaag ccagtagcaa tcaattgggtg ctggcatgaa gcatgaaact atttgccatc 900
tctgagttat gccagtanaa ttggcatgct tctggtttcc atgcatacca ctacctttca 960
tgggtttttat tgtgcacaaa ctttgcacgc ctttagaatg atatacctac gcagggtatat 1020
aatttgtcac cctgatccaa aaagggkaag awgccmagac catagtgage ctcttattag 1080
aaagctcttg gcttcagttt ttgacacttc cctgactctt tatattcacg ttatcataag 1140
ctgccaaatt cttgactcta taaattgccc tttaacagct tattaggaat tccaactact 1200
gtattctagc accaactaca gcatattcag agcctctgca attcctaaaa gtacacttaa 1260
accaaataca tgggccagcc tgcactcttt aaaatacatt ttatgccttt acacttcgta 1320
ttaagtggg tgagaattat gttttaatct acactctatc ttgaattgtc ttacatttta 1380
ttctgcttac cagggttcar gttcttatcc naaaatgaag ttaaattttt ttctcttaga 1440
tagttgcatt ccckgaagca attaraacag catgatcccc ttggtgttta ttgacattct 1500
catcattgtc tcattgggct ttaggtttta catgcctcat gatgacaaca acaaagttaa 1560
agaagaagga gttaagagtc cccagcatgt catggctcca acactgaact tctacaccaa 1620
cccctggatg tggtaaaagt gtagtcgaaa atatatcact gagtttttag agtaagactt 1680
gaacattctt ttagcacaaa cttctagtgc ctggcctaca tgtagtgaac taattgtggg 1740
aaagacaata tgaagtcaaa cattcctttt gagttatttt tgttgacatt ccttggagaa 1800
ggcaaaaaaa aaaaaaaaaa aaaactcga                                     1829

```

<210> 945

<211> 388

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (337)

<223> n equals a,t,g, or c

<400> 945

```

aaaaaaaaaa aaatgaaaga aacttgccct tttactttat atattcccat agtcacacac 60
ctagacctct gtttggccag attaccagat atgtatgcaa agagaatttg tagtgaaaac 120
tgtcgagtca tattcaaata ctttctgtaa tgaaaagctt tttcctaaaa tctgttggaa 180
attgctcatt ggttaactac ttctgtaaaa gtatttgggt gaaattccag agttttatga 240
ggtgarggat aaaaagrtgg ctcaaggcct actaaagtca acctgcatca ttagtccctt 300
tcagaagaca rgracckggg ttwtgggaaa gatccngtt tkctgratct gctatkagtt 360
tctgctgcct cacttggcca acaatttt                                     388

```

<210> 946

<211> 637

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (11)

619

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (618)

<223> n equals a,t,g, or c

<400> 946

```

cctcactnaa  nggaacaaaa  gctggngctc  caccgcggtg  gcggccgctc  tagaactagt  60
ggatcccccg  ggctgcagga  attcggcacg  agcggccgcc  tccatgaagc  ggaaaagcga  120
gcggcgggtc  agctggggcc  ccgcgcccc  ctgctcgcgg  cgctgctcgt  cgacctcgcc  180
gggtgtgaag  aagatccgca  gctccacgca  gcaagacccg  cgccgccggg  acccccagga  240
cgacgtgtac  ctggacatca  ccgatcgcct  ttgttttgcc  attctctaca  gcagacccaa  300
gagtgcacat  aatgtacatt  atttcagcat  agataatgaa  cttgaatatg  agaacttcta  360
cgcgattttt  ggaccactca  atctggcaat  ggtttacaga  tattgttgca  agatcaataa  420
gaaattaaag  tccattacaa  tgtaaaggaa  gaaaattgtt  cttttacttg  gctctgatca  480
gagaaaacaa  gcaaatgctg  ctttccttgt  tggatgctac  atggttatat  atttggggag  540
aaccccagaa  gaagcatata  gaatattaat  ctttggagag  acatcctata  ttcctttcag  600
agatgctgcc  tatggmangt  gcamtyctac  atwaccc  637

```

<210> 947

<211> 753

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (746)

<223> n equals a,t,g, or c

<400> 947

```

ccacagtgcg  agccccggcg  ccccgaaagc  ggaaaaaggc  tgggtgccgc  cgtccccag  60
ctgcgcaacc  ctaggaactc  tcggcaaaaa  aaagagcatg  aggaatttga  agactgagag  120
atgagttgtg  tagcaccaac  attttctttc  tgcttgacct  tcatacctga  tgaattaaaa  180
gcataggatg  tttggaagag  tgagataagg  gacacattga  aaacagagag  gcaatctgaa  240
ggctaccttg  acgcatctgc  aaagctccca  gattctgact  ttcacaagac  ttgctttctg  300
tttctgggcc  tcgcctaaac  agactgccag  tcatccgaac  cgtggcagga  tggagatgtt  360
tgtgtaaggt  agactcaagt  ttgcaagact  caagaaggaa  accacccaaac  taatttwact  420
ttcacttaaa  ccagattgaa  accaagactt  gaagaattaa  aaactttgac  attaaccatt  480
gattcactcc  aatgaaataa  ttgtgttata  gccagaatca  tggtgaaatt  ggaacaaggc  540
ttttgatggg  atttttaatt  gagggactta  tattaaattg  gatattttct  ttaatgaaca  600
gcatgtggcc  aaaattctat  tttcattaaa  gtatattaag  catcatgaca  actcatatta  660
aacctgcaac  aaatgattaa  tgacatttag  agacttcaaa  tgtcatgaga  caccctaaat  720
attaagaatc  aaaaagaaca  cctcanagtt  gtg  753

```

<210> 948

620

<211> 912
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (757)
<223> n equals a,t,g, or c

<400> 948
gctcgtgccg aattcggcac gaggttagtt gccgaaatat actagttctc tgaggggttaa 60
agaagtaaaaa taccttttta aagttaaata tcactagaaa aatcagtgtt attacaaggg 120
aagaaatgaa ccacagtttaa gaatttgcca tcagtagcag tattaagcag tggttaatgt 180
cttaraagtc agacttcttt ttcaaggtct tcagaaccac acttgatttc tgttttgttg 240
cagctgtaat tgacacacac taggcagctg actccttgaa tatccagtgt gaccataaaa 300
atagtctgtt aataccggat cttaattttt atgttattca ttaagatttt aactatattc 360
agtacgtaat ttggagacaa actagcatca tcaaaactgc ctgtaaataa ggtgtttagt 420
ctttctataa aaacagaata gagcagttac ctaccagtta aaatatctta tatgaagaaa 480
atagaataaaa gatccagtca tatatgtaaa taagatgtac tgattgtacg taaatgaaaa 540
atggaccctt taaaaattat ttttacctga agcttgtcat aatTTTTTTT aagcaaatat 600
atatatgggtg atgggtacttt tcaaagtgtg tattagtggg gatcacctca aacataaacc 660
tctgttgtga atcatttgtg tccttttcaa ctgtctttca gaggaaagggt aaaaaatcat 720
taaacctgaa attcattgtt aaaatcaa atttgtnagc agtaactcaa gctcatgggt 780
ctcaagcaga aaaaggtttg ggargactta aaaatggagt ccaggttgta catgggagac 840
tgcttaactc ccttgggggta ggcattgggcc ttgccttcag caaaccagtg catttcccca 900
tgtcttagtt tc 912

<210> 949
<211> 440
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (392)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (405)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (416)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (435)
<223> n equals a,t,g, or c

621

<400> 949

```

gcagtgcagcc gagatttcac cagtgcactc cagcctgggt gacagagcaa gactccatct 60
caaaaaaaaa ataaataaaa aaaaatgcag ctgcaggagt gaggcgcttg gaggtacctt 120
gacccaaaga gcagggcaga ggggtggcagt ggcacatagg caagtgtctt tgcattgacat 180
cttctcagag cttcacataa atgtcaggga ccacatttaa tgctttttta tctcccatag 240
tgcttggttc acaggaagtgc ctcagatatg ttaagtaata aaaagttaat gtgggtgggtg 300
cagtggctca cgctgtaat cccagcactt tgggaggctg aggtgagtggtg attacaagggt 360
caggagttcc agaccagcct ggctaatatg gngaaacctc ggctntacta aaaatnccaa 420
aattactggc atggnggtgc                                     440

```

<210> 950

<211> 1006

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (408)

<223> n equals a,t,g, or c

<400> 950

```

attttcaaaa ggaaactaat ttattttttct ataaaatata gcaaaggaat cgaatacatt 60
tttattctat gtaataataa atataatttt cacatttagg aggcaatagc aaatctggga 120
agcagttatt ctaagttgga agagcattat cccaatgcat tgaaaacatt tgatgactat 180
tttttatgtc ttctttattt tgatgattat aataatgttc taactgggtg gccttcgttt 240
ttcactctag tcagtccatc ttgtttacta tgtcaattgt tctccaaaaa gtagaaatgt 300
cattgttttg gggccataka acatttcaga agctttccag tatctatgca gtaacagtcc 360
aaaccctca acataacaca ttacacctg caagtatggc cccaaatntt caagtggctt 420
ctgtcactac tccatagtac atacccttg ttacagctgt ttcacaaata cagggttgat 480
atcccttate taaaatgttt gggactamaa gtttcagatt tcagatatgt ttggattttg 540
gaatatttgt acatgtataa tgagrtactc ttagagttgg gacccaagtc taaacaaaat 600
tcattttatgt ttcatatata ccttatacac ataacctgaa ggtaatttat ttttcccttg 660
ggaacactga atagactata tgttgtgcac ctacattttg actgtgacct atcacatgaa 720
gtcaggtgtg gaattttcca tttgtggcat catgtcagta ctcaaaaagt tttggatttt 780
ggattttgaa ttttcagatt agagatgtc agcctaatac caaatgttcc catgttatac 840
acctcaacct cccattccca ttggctggaa catctctgct tatattaaat gtcttttatg 900
tgaaatctgt gttctcatag ctttttgtat agttctctac catctcatgg ctcacattgt 960
attgtactta tttgattmaa tatctggatc atctactgtg aaaaaa 1006

```

<210> 951

<211> 1302

<212> DNA

<213> Homo sapiens

<400> 951

```

aaagaaccaa tgcaagtttg gtttctatcc agaaaaata caggaacaga ggaaacaaag 60
caggatgatg actgaatctt ggattatggg gtgaagagga gtacagacta ggttccagtt 120
ttctcctaac acgtgccaaag cccaggagca gttctccct atggatacag attttctttt 180
gtccttgctc attaccccaa gactttcttc tagatatatc tctcactatc cgttattcaa 240
ccttagctct gctttctatt acttttttagg ctttagtata ttatctaaag tttggctttt 300

```

622

```

gatgtggatg atgtgagcctt catgtgtcctt aaaatctact acaagcatta cctaacatgg 360
tgatctgcaa gtagtaggca cccaataaat atttgttgaa tttagttaaa tgaaactgaa 420
cagtgttttg ccatgtgtat atttatatca tgtttaccaa atctgttttag tgttccacat 480
atatgtatat gtatatttta atgactataa tgtaataaag tttatatcat gttgggtgat 540
atcattatag aaatcatttt ctaaaggagt gaattctaag ttttagggga aaaaatgcaa 600
tttattttca gactcccaaa gtaagaatta acatatcatg ctaagaaaat agtgactatt 660
ttgaagtatg ctacttccct ttcagaaata tagaatacac gtttctgtta ttaaagtatt 720
tgattactaa ttcaaatacat atggcaatta taattcttct aaaatgctat catttgtaac 780
tgtatccctt gtattaaatc tcattaacca caggcagctg ttacagaaag ctgcattgtt 840
tcacattgag ctgttacatt agttcaggct aaatgttggg mgctccaacc acatccaaga 900
ataaatctgg aaacacactg ctgggatact gctgttagag cccttcttgg ccttgtattc 960
ccagaaatga gctccctttc cttagcttag aagaatgtga ttatatccag gacatcatgt 1020
tcagaaaact tagtttactt tcagcataga atgcattact gttggaataa ttggcctcta 1080
gctcttaaat gtctctgata acttattaat atctatcttt ataaaaataga gtgcaactac 1140
ttttgtgtaa aaatgtttgc ctttaaattt agtatttcat atcagcacat cgatatatgt 1200
ataaatgttc catgttaatg tgtaaaagag tctgtaataa attatttttt tcacgtgtct 1260
ctatacagtt tttatttcma taaaaatatt aacattaaaa aa 1302

```

<210> 952

<211> 471

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (65)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (393)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (442)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (471)

<223> n equals a,t,g, or c

<400> 952

```

ctgtaacctt ttcacgcgct atctgctaaa aatgttgccg atgtgaagta aacatggatg 60
tagtnacctg acgtgccagg cgaggagtga gtgtgaaagc gragaagsag gaaactgccg 120
cgaccatgaa agackttgcc ctcaagggsaa aagtctctac agcgaccgtc tcccagacat 180
taatgaatcc cgataaagtc tcccaggcca cccgtaatcg ggttgaaaaa gcggcccg 240
aagtgggtta tttaccgcag cctatggggc gcaacgtcaa gcgtaatgaa tccgcacca 300
ttctgggtgat tgtcccgat atctgcgac ccttcttttag cgaaattatt cgcggtatcg 360
aagttacggc ggcaaatcac ggatatctgg tgntgattgg cgactgtgcg catcaaaatc 420

```

623

agcaggaaaa aacctttatc gntttgatca tcaccaagca aattgattgg n 471

<210> 953

<211> 918

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (862)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (871)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (881)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (903)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (916)

<223> n equals a,t,g, or c

<400> 953

```

cggcacgcgt gggcctactt tcacgcttcc tccccctccc ctccctccctt atcccttcgc 60
tttcgctctt ttccgctcgag gccgaccctt gagttgtgag tctgggggtct ggttggtgaa 120
aaagagccct tgaagctgga agacgggaga ggacaaaagc atgtcttccc ttccctgggtg 180
cattggtttg gatgcagcaa cagctacagt ggagtctgaa gagattgcag agctgcaaca 240
ggcagtggtt gaggaactgg gtatctctat ggaggaactt cggcatttca tcgatgagga 300
actggagaag atggattgtg tacagcaacg caagaagcag ctagcagagt tagagacatg 360
ggtaatacag aaagaatctg aggtgggtca cgttgaccaa ctctttgatg atgcatccag 420
ggcagtgact aattgtgagt ctttggtgaa ggacttctac tccaagctgg gactacaata 480
ccgggacagt agctctgagg acgaatcttc ccggcctaca gaaataattg agattcctga 540
tgaagatgat gatgtcctca gtattgattc aggtgatgct gggagcagaa ctccaaaaga 600
ccagaagctc cgtgaagcta tggctgcctt aagaaaagtc gctcaagatg ttcagaagtt 660
catggatgct gtcaacaaga agagcagttc ccaggatctg cataaaggaa ccttgagtca 720
gatgtctgga gaactaagca aagatggtga cctgatagtc agcatgcgaa ttctgggcaa 780
gaagagaact aagacttggc acaaaggccc cttattgcca tycagacagt tggaccaagg 840
aagcacgcaa gcgccggtga anagcgctt ncaggcccaa naaaggaagg agaatcattt 900
aangactttt attccnaa 918

```

<210> 954

624

<211> 1683
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (5)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (344)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1604)
 <223> n equals a,t,g, or c

<400> 954
 cgctnttccc cccacacccc gtgtggccag ggatccccgc atggcccatc ttagaaactc 60
 aactatatttg tggatgctaa acacttcact tcaggcaatc ccaaggcatt tgctccaggg 120
 tatccgatga gattacagct gttaagcttg ctttccattt cataacttgc tgtgcagcta 180
 gttaccaccc ccatgctgaa gagtaaagca aagtgccgtg gttcggcagt ggaatccacc 240
 cccagcactc tgctcgcact ggagcgttca agtccggtta tgtgagaaca gactaggact 300
 ctcttgctgc ctctaattgc atttcactgt caccctcccc agtnttctga tgggtgtgcat 360
 gtgaggagaa gatgagggtta ggactgagaa gtgcagaagt tggaaacagt gtaaggctgt 420
 tttaaaataa gatgttttgt ttttaataata tgctcctggc acaaagctag gagtaaatgt 480
 gactccaaag ggagttcagt taatctctga aatgcacaaa acctagctat tttctccctc 540
 tcatcacagt ctgagtctgg tccattgcta cccaattct ctggggacat aaaaccaggc 600
 tggaaaaggga ccagggaagt tgaaatagtg acatatcatc cactagtccc aagggtctaag 660
 gaatagttag tttattcttg aaggaactgg gaagcttagt ctaattagtg cctgggggatg 720
 acctatgcaa tcacaccgct tatgaccatc ctagagaggg ccctgagcac cagcttgatc 780
 ttagggattt ccaaagtaac ctgctttttg cctggatagg gttaaaatag acctttcttg 840
 cctatccttg ccttaacctc tctgcctgag gttggcctga gattgtgagt caacgacttt 900
 gctatctttt cctcagtgtt gaactttcat taagaaataa agtcctagct tcttacagag 960
 aggggtccaa atgggtgaatg ctcatcctgc ctggattcaa ggrattagct cagagrttgg 1020
 cccctagctt ttctgccttt gtagggacag caaaagggga aaatttgctg cagaaaaattc 1080
 caaaagattg ctgtagctct cacaggggaag tggtaaagat cagctaaacc tgggttgggg 1140
 tgctttctgc ccagtgggtc ttggcataag tagattaatc ctgctctttt aagaaaaggc 1200
 aacttattca ggcagtcttg aaaggggggt ctcagaaaaac tcagtttctt tattccttct 1260
 tttctcccaa ctactgttac tggttataga ggtcttttga ctctaaagac caatgttttg 1320
 ccactaactg gactaatatg tatctttctg tgatttcac atagaggtct gttttgtgag 1380
 ggtttggggt gcagaaaact ttgattaaat cttaatggga ggctgggtga cctggattat 1440
 ctacagttag cagacttaaa tggaaacagaa gtttatgtgt ccaaagtatg gaatcattaa 1500
 acctgagtga cttgacctgt gtggttcctt aatagtatct atatatctag acaaaaaatag 1560
 attgtgaatg taaatggtga atgaaaagga tggaaataat gttntcataat gttaatccat 1620
 gagcttgaat ccagggagga atacctcggg gctttaacca ccttagttat aacacatttc 1680
 tta 1683

<210> 955

625

<211> 119
<212> DNA
<213> Homo sapiens

<400> 955
acctcctcgc cctgggctgc cccgcctggg tctgggggac ctgaacctcc tcgmcctggg 60
ctgccccgac tgggtctggg ggacctgaat ctctcacc c tgggctgccc cagctgggt 119

<210> 956
<211> 351
<212> DNA
<213> Homo sapiens

<400> 956
aaaactctgt aggctgatta atgaagatgt gaatgagcag gttatgcagg tattaggacc 60
tgaagacctc cagagcatta tctacaaatt sgaagaacac gaggaat ttt tcccagcatt 120
tcaggcattt actaatgatc tacttgaaat cttagaaatt gatgacytgg atgccattgt 180
acctgcagta aagaaattaa aagtactttc atactgaaaa caaatcaa at catttttact 240
gtgtaaattg tattcttaac attttgtatt ttgtaggatt gatcttattt tgagacaagg 300
gttgtaaaat gtatttgctc tcagaattca tcccccttctt agtattaggt c 351

<210> 957
<211> 375
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (299)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (361)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (374)
<223> n equals a,t,g, or c

<400> 957
aattcggcac gagcttacca aaagtatcta atggcccaat gccttcaa ac caagtttttt 60
caattactat attttaagtt atacattcaa gttaaaatat acctaggaca ttctgattat 120
agcctaggct ttagttctat ccagagaaca agaaaaactt tttgaaaaag gtaaggaatc 180
gatcccatat ctgatcagga cccataggca tgccagacat gggcatgggg ttcatgttca 240
tctgtcccat gtgaccactg ctgccattca tgtgcacat actatacact gcaggattnc 300
cctgggtggg aaacttgctg ctgggggaaag gagtttaagt aaacaaatgg tatattacct 360
ntggagcact tagng 375

<210> 958

626

\<211> 557

<212> DNA

<213> Homo sapiens

<400> 958

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cagcagacaa gaatgagatt ttgttttctg aattcaacat caactataat aatgagctgc 60
cgatgtatag gaaagggact gtgttgatat ggcagaaggt ggatgaagtg atgacaaaag 120
aaattaagct gccaacagaa atggaaggaa aaaagatggc agtgaccgg accaggacaa 180
agccagtgcc cttgcaactgc gatatcatcg gggatgcttt ctggaaggaa catccagaga 240
ttctagatga agacagctga cccttttgcg cttcagttct ggtgtgctta accatgcaag 300
ccctccacc tcccagggt ccttgccctta ggtggctgta gcatccctac caccaggac 360
actgggtgca atgacacaac tcaagttggg aggggaacag ggaaggaagg gatggatggg 420
gggtggtgtat cttactctgt ttaagcagaa caccttgctt gcggtgttgg aacatggttc 480
ctttggcaga agtgcttttt ttttaatcgc agtactatct ttataaagcm agaactattc 540
catgccctgg gggatga                                     557
```

<210> 959

<211> 346

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (274)

<223> n equals a,t,g, or c

<400> 959

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ggcacaggaa tgacttcaaa ggggtgtgag ccaggcctct tcccacacca gacttcatga 60
accatgcctg gtattgtgca tgtttttctg agcagccgtg aatagggctg ggggagagag 120
atgttcagcc aagaaagtct aaaatagaaa gggaatgttc agttataaca aaacaaattt 180
ttgtaattag agtgctgggt tgtgctcagc atcattgggg ttaaattgtg agcagtggct 240
tacacttgta atcccagcac tttggggaaa ctgnggtggg gcggatccct tgaggtccag 300
gagttcgagg ccaccctggg gcaacatggg ggaactccca tcttct 346
```

<210> 960

<211> 774

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

627

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (750)

<223> n equals a,t,g, or c

<400> 960

```

gntnaaatcc ctncccaagg tatgtaatca gaatcccatc atgaggcaca cccaaatgag 60
ggacatttcta caaaataact accttgcaat cttcatagag tgaagattat gaaagtcaag 120
gaataatgag gaactgttcc agactgaggg aaagaaaata tttgacaagc agatggtatt 180
cgtgcttctg aactgaattc ttttgctcta ataaaagaca ttttgggcac agttttctga 240
ttctgatgaw tgkawtgkga wtatgtaaga gaawgtagga aaagkattca ggggtagtgt 300
gggacaggtc agcaactcac tctgaaatgg ttcaggaaaa tcagttcttt atgctgtatt 360
ttcaatcctt gtataaattc gtgtttgttt caaagattaa aaaaagarar aaaatggagg 420
ggaaaatacc tggtaggcaa atgaacaaaa gacatgaata ggcaattcat ttaaaaatta 480
aaataggtct taaaatattt aaaaaaattc agcatcactg ataattagag aaatgcaaat 540
taaaactgca atgaaatatt ctcatctgtc atgagaaggt tgtggctgag ttaagagatt 600
ggcaaatccc caccaccctt gcccaaaagc aactgtaaat gccattctgt aaacaaaagg 660
aatcaaggaa cccttggtga tgtgactgat ttcagactgg ggcagataaa gtacaagctg 720
actcagaaaa gtgaagttgt gccagaaggn taagggaagtg gctcaaaaaa tgaa 774

```

<210> 961

<211> 901

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (774)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (831)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (867)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (888)

<223> n equals a,t,g, or c

<400> 961

```

ggcacgagct tagtaccaaa tcctctgttt gggattgagc gctgctcctg gttaatcatt 60
cctactacaa aaaaaaataa ctcccagggc tagttaaatt gtaaaccaag gctcagcagt 120

```

628

```

ctcacaacac atggaccaga ggtgacacac agccatttcc tttgccatgt ggcccagttg 180
ctgctgccat gcctccattt ccacactgga tgcctacggc agtgagattt cactgccggg 240
gtaagagttc agcctggatg attttatagc tctgttccta gcacttctca tcactcttcc 300
agcccagaat cagcggtcac tctgcatatt cccaccaacc ctctaccccc aaacacttca 360
gtgtacctca ttttaagagt tgctgatecc tgattctagg acgtttttac ccatagttct 420
tgtctttcca aaatctgaaa ttcttttttt tgctcagaac tgggtagcca aggggttattt 480
tattttttatc tttaaaataa tcaaggcagt cgctagagtt tctccttggtg aatagatcac 540
tctagcattt taatgaaaaa gaaaaaaatc tttctggggt atgttgatc atagtaatgg 600
ctcagtaacc acatattttg tcctttccat gtcactgatt ctttcatatg agactatttg 660
gcttgactac cctgtatatt gtgtagaaat caaagttctt atctgtacat ttctgggtcca 720
atacctgtct tattagttgt ctttccccac taaagtttgc aaaacagaaa atgntactat 780
ttctgggtat ttaatgacaa tgaaaggttt gggtcattat tcatagtgc ntaaccgata 840
aggagggggg ctcaaggttg cttttgnggt tcttctaagc tttggtcntg gattttaaga 900
c 901

```

<210> 962

<211> 1452

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<400> 962

```

cangnggaa gcttaagacc aacttttgtt tgagtacaca agtgatattt acattttcat 60
atactagtga tatgcctgtt gcatacttgg caaaataaaa ctgagattcc gtctcaaaaa 120
aaaaaagaaa aggaaaaaaa aatagcatta tacctcttcc ttgtctcaac cgccatgaaa 180
attctgaaca ctccaaattc agttgaataa tccaaaacaa aatttataag tataaaataa 240
ttttacttct tatagtaata gtatacttta aaaagcctca ggggtatatta tcttctaaac 300
agctacaatt cagtgcagct acattaacca actatgttct ctagttgaga acaactaggc 360
ctattttcact gctgtgtagc ctcagtgcct aacatgggtg ccaaataaat attcgtagaa 420
ttacactgaa ttgtaaaaac cattcgtttt tgtttacaat tgccaaaaat ctcaaaaggc 480
cctgtattta tgtaattctt tgaaattatt attttatttt gatttctcag ttattgactg 540
gctgggtgtg acttagtaca taagtactca atattataaa aacctcaaat aattgacttg 600
attttacaca acatccttcc cttttctaca agttaatttt tttaaaaatc atttgggtta 660
tctcctaaat aggttatatt ttattgcttc tagaaacaat gtttcaaaat atatgtgcat 720
tatcagtaat aatttgtata aatatttccc acaacaattt tcataatttt caaagactaa 780
tttcttgact gaagatattt tgctagggaa gtgaaacttt aaaattttgt agatttttaa 840
aaatattgtt gaatgggtgc atgcaaagga tttatatagt gtgctccac taactgtgta 900
cagatcagga cacatatatt tagacatcta agtctgtagc ttaaatggag gttactcttc 960
catcatctag aattgtttac ttagtaattg ttgtttcttt tattattata gacttactat 1020
cagttttatt ttgccaagta tgcaacaggy atatcactag tatatgaaaa tgtaaatatc 1080
acttgtgtac tcaaacaaaa gttgggtctta agcttccacc ttgagcagcc ttggaaacct 1140
aacctgcctc ttttagcata atcacatttt ctaaagtatt ttctttgttc ctgaaaaagt 1200

```

629

```
gatttgtatt agttttacat ttgttttttg gaagattata tttgtatatg tatcatcata 1260
aaatatattaa ataaaaagta tcttttagagt gaccctttcc ccatagattt ttatttctct 1320
attatatattt acaaggaata taactcagtt tgtagggag agtgccttaa aggcaggtgt 1380
ttcttggact ttgttattta attagatctg cttgcaataa aaaaagttat cggttaaaaa 1440
aaaaaaaaaa aa 1452
```

<210> 963

<211> 423

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (421)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (423)

<223> n equals a,t,g, or c

<400> 963

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tgaattttttt atttctgatt tcatgtttttt aatatccaat taactcctta ttttggtaat 60
gtttctttttt tatagtattc caatcagtca gcattcactt aaaaaaaaaa aacagaaata 120
actccagata ttttaagcaa aaagggtatt ggtggaagg gttgactata gtaatgtcag 180
gaaggctggg tgagccaaag agaagaggat gctgccc aaa gatcaggaag ctcccagtgc 240
ccacccccac tgctgctctg ctggaagcat agccctgcca ccattgcatt gaactgtacc 300
actgccgctg agcaaagtca ggatcccaa ctctgaccat tgtatcatgc cgggctggct 360
ctgcaatgtc attttgatgt gtcttcagta tggattttttt tttttttttt tctgagtcaa 420
nan 423
```

<210> 964

<211> 786

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (610)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (663)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (698)

<223> n equals a,t,g, or c

630

<220>
 <221> misc feature
 <222> (706)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (737)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (740)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (762)
 <223> n equals a,t,g, or c

<400> 964
 taagctggta cgctgcagg taccgggccg gaattcccgg gtcgaccac gcgtccggaa 60
 aatgcattca gaatcttcag agtcagggtga aaagctttgg ccatgattgg ccttggcatt 120
 ggttggtgctg gacagcggga ccaggcgccc ccttacctgg cccccccctc ccaggagccc 180
 ggtgatgctg cgaaggctgt gaacagggga ggccggcactg tgggggctgc cggcagccgg 240
 ggctggggag agacatgtgg acacgtggcc tctatggctc ccgcctgcc gatcctccgc 300
 tggggccctcg ccctgggggt gggcctcatg ttcgagggtca cgcacgcctt ccggtctcaa 360
 ggtaggggaa gtctgggtgg ggcgggtgggg agggagcgaa aaatgtaaga gaccagttgg 420
 gctccaacag aaagaggcat cagggggctg ggatgggggt caatggggga aggccctggg 480
 gtcaataggc gggagccttg cagccaactc cctggatttc ggggggtcaag tgaggccagc 540
 atcacttgct ccagcagcct aacagccagg acacaggggt ccaataagac cagggcccac 600
 cccargcctn tgacccttac ccacagatga rttctgtcca gtctggaaaa gctatgagat 660
 cgnttttccc amccgcgtgg accacaacgg ggcactgntk gccttnttgg caacttcttc 720
 ccggaagcag cggccgnggn accggggggc cacaggccaa tncgggcttt ttttacaaag 780
 gggctt 786

<210> 965
 <211> 1340
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (7)
 <223> n equals a,t,g, or c

<400> 965
 ggtccantaa aagagaggag gtttggagcg gtggcctgtg gagttgctat ggagctgtat 60
 gtgtttgggg gagtccgaag tcgtgaggac gccagggtga gcgagatggg aacttgcaag 120
 tccgagttct accatgatga gtttaaaaagg tggatctatc ttaacgacca gaatttatgc 180
 atccccgcc gttcctcttt tgtttatgga gctgtacct taggagccag tattttatgtt 240

631

```

attggagatc ttgatacagg taccaattac gactacgtgc gtgagtttaa aagaagcaca 300
ggaacctggc accasastaa accactcctt ccataccgacc ttcgccgtac aggatgtgca 360
gccttacgca ttgcgaattg caagcttttc cgcttcagc ttcagcaagg cttattccgt 420
attcgtgttc attccccctg aggaggaagc agagcagagt gcgagatcct gacccaagag 480
caccataaca tagctccgaa agggagagca gagatggcag ctgaaactca ctctgtgctg 540
ggctttggta tggtaactct ttggtggttt tatgatgctt acaaacttga gctttactcc 600
ttggttggga gaacacgtaa ctgttgaaaa actacctggg aggagtgagt tcctccagtt 660
aatgtggct gtagatgttg gaggctaagg aggctagtaa atatcaaaag gaaaaggag 720
tgggaattgc tatcatgtaa aatatcaaaag ttaaaatact aagggtgcatt ttccctgaag 780
ggaactcagt ctgactgctg tattcaaata cgtagctttg gtaacaaaca aaatccgtat 840
atgcaaatca acatatccaa acatgccaaag actgcttttc cactgcactt ggaaggatat 900
attatgccta agcctgcccc acaaattaag gtttgtgcct aaaatgttag attggactgt 960
atgccagtta gtctccattt attcctagta ctctgtccta agaactcttt taaaactata 1020
tcatgatgaa tagaaatgaa gataaaattg ctcttttcta actttatctt agtaatgtaa 1080
agattcagta aattgatgag tcagggttgca gccctcatgt gaactgaaag aagttgctcg 1140
cttctgtgtt gacttagatc aagacacgtc acgcatacct tctggggtag tacctgtgga 1200
gccgggaagg gtctcctgca gtgccattct gccttctcaa tgagcaaaac cattttctaa 1260
gtatgaggat attagtgagt aggagatttt ataaaagaaa gacctgagtc agacaaataa 1320
taaaggctctg ctgtggctaa 1340

```

<210> 966

<211> 884

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (77)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (771)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (796)

<223> n equals a,t,g, or c

<400> 966

```

aggggtttat aggcacgaga ccctgcaccc aacctagagt tgcctttttt aagcaaagca 60
gtttctagtt aatgtancat cttggacttt ggggcgtcat tcttaagctt gttgtgcccg 120
gtaaccatgg tcctcttgct ctgattaacc ctcccttcaa tgggcttctt caccagaca 180
ccaaggatat agatggccct gccaaagtgtc ggctctctct gttaaacaaa aacattctaa 240
agccattgtt cttgcttcat ggacaagagg cagccagaga gagtgccagg gtgccctggt 300
ctgagctggc atccccatgt cttctgtgtc cgagggcagc atggtttctc gtgcagtgtc 360
cagacacagc ctgccctagt cctaccagct cacagcagca cctgctctcc ttggcagcta 420
tggccatgac aacccagag aagcagcttc agggaccgag tcagattctg ttttgtctac 480
atgcctctgc cgggtgccgg tattgaggca cccaggagc tgttactggc gtggaaatag 540
gtgatgctgc tacctctgct gctgcactca cagccacact tgatacacga tgacaccttg 600

```

632

```

cttgtttggga aacatctaaa catctagtag atgacttgca ggctgttggc taccagtttc 660
ctgtctgagg tgtatatgtt aacttcgtga tcagtttgta tgtttgggac tcttgtccta 720
tgtaaagtta aggtgggccc ggtgcagtgg ctcacgcctg taatcctaac nctgggaggc 780
cgaggcgggt ggatcncctg atggtgaaac ctcactctta cttgaaaata caaaaattag 840
ctgagtgggtg aaaaaaaaaa aaaaaaaaaa aaaactcgag gggg 884

```

<210> 967

<211> 1632

<212> DNA

<213> Homo sapiens

<400> 967

```

aaattgaaac ttctaataaa aatgatatga ctatagatat attacatgct gatggtgaaa 60
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caaaaactga agatacagtt ctctgcagca gtgatacaga tgaggagtgt ttaatcattk 180
wtacagaatg taaaaataat agtgatggaa agacagctgt tgtgggttct aacttaagtt 240
ccagaccagc tagtccaaat tcttcctcag gacaggcttc tgtaggaaac cagactaata 300
ctgcttgtwg tcctgaagag tcatgtgttt taaaaaaacc tatcaaacga gtatataaaa 360
aatttgatcc agttggagag attttaaaaa tgcaggatga gctcttwaag ccaatttcca 420
gaaaagtacc agaattgccc ttaatgaatt tagaaaattc taaacagcct tctgtttctg 480
agcaattgtc tggtccttca gactcctcta gttggccgaa atctggatgg ccttctgcat 540
ttcagaagcc aaaaggacga ttgccatatg aacttcagga ctatgttgaa gatacatcgg 600
aatacctagc tcctcaggaa ggaaattttg tttataagtt atttagcctg caagacctgt 660
tgttactcgt acgctgcagt gtccagagga tagagacaag accacgttct aaaaaacgga 720
agawwatyag aagacaattt ccagtttatg tactaccaaa agtagagtat caagcttggt 780
atggagtgtg agctctgact gaaaagtgaac tttgtcgtct atggactgaa agttttattgc 840
attccaacag ctcattttat gttgggcata tcgatgcatt tacttcaaaa ctttttctac 900
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tatttaacat cctccaacac attctaaaaga aactaagtag cttgcaggag ggttcctact 1020
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ttactaggac agcatacaat ttgtataaaa cacattgcgg ccttccttgt gtaccttcca 1140
gtctctcagt tccttgggtc ccattagatc ccagcctgtt attaccatat catatccatc 1200
atggaagaat acctgtact tttccaccga aatcactgga taccacaaca caacaaaaga 1260
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gcagttgctt gctgtctcag caagttgaaa ctgaaggagt ggctccacat aaaagaaaaa 1380
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tagagtgcct tgaaaaaatg tgttggctat gtgaaggaaat atttcaacta aaatggaatg 1560
gtatgctttt cacccttgaa gtttgaggag gatcttgata tgttttaaca ttatcatggc 1620
agggaaatat at 1632

```

<210> 968

<211> 1592

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1581)

<223> n equals a,t,g, or c

633

<220>

<221> misc feature

<222> (1589)

<223> n equals a,t,g, or c

<400> 968

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tactgttttt tttttacttc cctttttctt aatcttcttc tctttctctc attttctttc 180
cttatcttcc ctacccttct tattatcttt cttgtttgct catgtaattt cttctccctg 240
tttaccacct ctgaccttct tgtatttctt tctgctccct ccttattact ccttcccttt 300
tcttgtcctt cagttttaatt atttcaaaca catcacacat aaggcctgct attcccttga 360
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tttgtctccc atctactcag atctatcaac ttctctgatg gttatttgaa agtttagtac 480
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atataagagc ttatttgcaa ggtgggttaat acatgtataa atactacaga gttgactgta 600
tataggtagt ttgtagatagc attaagctat tctgttctct gcttcatctc ttagattggt 660
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gcatcgcaaa ctttgtttct gacccatttt gacagttttt atatactcct ttaaaatgat 1260
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gccaaaaata aaaactccct gcctctgaaa agtcagatta ctgacttctt gtttggaac 1380
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tctatctcta gattcaagct gagtgttgaa atacactgct gaaagcaaag agataggtag 1500
gttttccaga aaaaaagtca gtgtcattgc tccagatgac aagggttaatg tggtaaagca 1560
taagcttttt tttttttttg naagggagnc tc 1592

```

<210> 969

<211> 1931

<212> DNA

<213> Homo sapiens

<400> 969

```

tttttttttt ttttttttgt attcttgcca gtacagtata tggtttttct accccaatta 60
catactgggt tttgtaccac atcactaaag gcccaaatca ttgaagatac aaaaccgtac 120
atgcaggctg gttgtctggt tagtcaatgg ctgatttgct tcaactgtct agtatgtatg 180
tgcagcctga aactggctcc ttaaaaggaa agccgggtca gtcactctga aaaaatgaca 240
tgtaaaagta aatcgataat tgttttgaga gacggtacat gtttttaaagg ttggccttaa 300
gcttcagtaa cattgtcatt ttgtgacctt ttgtgtcac acctgtacct taacctgaca 360
ggaattaaact actgtttttt tgtggggcag aaagcaaaac ctggtgttgt gacttttatc 420
ctaattggtc ttaggcaagg ttagtgagaa gaaacacaaa cccagatgca tgcattgtgc 480
attattttgt agacaagcta ctttttcttc tgtcccttta acaaatttgc agcaattacc 540
ctccctttgg ggtctagagt gaaagctaatt ttgtgggtag atgagattgc agaagaatgg 600
atgtccatgg ctgtgaacac tgcacactgc acatccatct ccagtgtcct cactgtgcag 660

```

634

```

ctaccactcc ctggetgegt gccatgctgt cgggttgcag atttgcacac ataaattcct 720
caggaagagt ttgcatgagc atcacctcgc aatattctgt actgaccaa caagggattt 780
gaacgttttt cagcacaaaa ggataacttc cgagtgggtg tctgtacgca tactagcaaa 840
ggtaatggtg atctagcaaa caaaattggg ttctgcagtt agaagtgagc aggagcactt 900
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tttagaaaaa tgttaatggc ttacaattct gagaacttta ttgtgtggct ctgggggtta 1860
gaattctgtg gtttgaaaaa aaataaatat tttgtattga ttcaaaaaaa aaaaaaaaaa 1920
aaaaaaaaaa a 1931

```

<210> 970

<211> 743

<212> DNA

<213> Homo sapiens

<400> 970

```

tctaactgtg gagtggatta aggagatttg caaasgacaa agggakgaat tccttacttt 60
aatctgttat catttttctt atgtttccyt ctttgttcag aagcccagat gcatttttat 120
aactcagttt taaaaacttt aaaatagtta ccttgccctt taggatgttc ttatcccacc 180
cataatgaga gttgaaaagg gatggatagc tgctcccat gcccttccca ctttttggaa 240
taggccgtga ggggtgtgagg aagaaggctg tcttttgtac ataaggacaa aattgtttgt 300
tttacataaa ttttgttaca tatttttgct aatggctttg tatgtaacaa gaagcgagtt 360
gccaaaactac ctgttgact tttgaatttt ctgattgaat tacagactgc gaacaacggc 420
tttcagaatg agggacttcc atcagactct aatgataata gtagcacaaa ttgaaaactt 480
cccaaaagct ttcacagaat attttctcat aataaaatcc aagtgaacag ataattagaa 540
gaaaaccctt tccttcaggg aaccaagcaa ctctatttta gtactgacat gcattatttt 600
cactgtgaat tcactttttt attgcatgtt cagatgtccc tctttgtttt ttttttttgt 660
aacattaact gcaatgatgt tcttcctgga attcatgaaa atataattaa aacacatttt 720
taaacaaaaa aaaaaaaaaa aaa 743

```

<210> 971

<211> 567

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (48)

635

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (68)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (73)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (545)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (547)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (562)

<223> n equals a,t,g, or c

<400> 971

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tggtatcngc cgncaaaatt gattgccttg cytgggtggtg gggaaaaaac tcccacacat 120
ttggtcagag aagttttctg tctttattgt ggtgtgagag cagaggaaaa aagtttggtt 180
tttccgctca gactttgttt taaggaacag gggagagggga agttctgtgg tttttgaagt 240
tcttagatac gtgtgtgtag ctttgtgtgg cattatatat agcattatat tattttctac 300
ccttatctac tcatacagaa attgcacagt aaaaacatca aagtttattc ataaaaatgtg 360
gatctattgc agtcaactaaa aatgttgacg aacagatttt aatgactgaa agtgttcatg 420
ataatatatt caatgaaaat atggttaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 480
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaataaaaa aaaaaaaaaa 540
aaaananaaa aaaaaaaaaa anaaaaaa                    567
```

<210> 972

<211> 366

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (261)

<223> n equals a,t,g, or c

<220>

<221> misc feature

636

<222> (343)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (360)

<223> n equals a,t,g, or c

<400> 972

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agtgagaact aaacgggggaa tacagatagc agagattaaa taggctataa gaaaaaaaaag 60
ggatgataat aagaccatgg tagtacataa aaaattttaa tgatctgggt aaatacattt 120
ttaaaaaactt actaagtgcc cagtgcgggtg gctcaggcct gcaatcccag cactttggga 180
ggctgagggtg ggtgggtcac ttgaggccag gagtttgaga acagcctggc caacatggcg 240
aaaccccgtc tctactataa ntacaaaatt taaccaggcg tgggtggtggg cacctgtagt 300
cccagcttac ttggggagact tgagccatga ggaatcactt gancccagtt ggggtgggagn 360
tttggg                                     366

```

<210> 973

<211> 411

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (45)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (300)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (406)

<223> n equals a,t,g, or c

<400> 973

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gaacagggggg ttttggttttg ttttgaaaga acgtctctgt ctgtngccca ggctggagtg 60
tagtggcatg atctcggctc actgcagcct taacctcctg gctcaaacia gccccctgcc 120
tctgcctacc aagtagctga gactacaggc acctaccacc gtgcctgtct aatTTTTTaaa 180
attttttata aagatgaggt ctctctttgt tgcccaggct ggtctcaaac tcctaacctc 240
aagcaatctg cccacgtcgg gcttccaaag tgctgagatt ataggcgtga ccacccgtgn 300
ccaattgtga tcgtttttcc caaagaatgt atcacatgct aacaaacat atatttatgt 360
atttcattgt tcatagtaac tacaatttaa aaactaaaag aacaancagg c 411

```

<210> 974

<211> 943

<212> DNA

<213> Homo sapiens

637

<220>
 <221> misc feature
 <222> (5)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (933)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (937)
 <223> n equals a,t,g, or c

<400> 974
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 gctatttttta tatttttgcca tttttacagta ctgtttttgtt ttgaattcat gcatatcatt 120
 gaaaattttct cgtttttcatt ttcttagatg acttctttgtc tgagacagaa aaattttccta 180
 ctacagcagt gcagtccaga ggtaagatg tattagaatt atacaatatc agtttaaaaa 240
 tctgtatgca taaagaatgc accactcaac ttttttattc ataagctaata attttttttaa 300
 agttacatta agatttttttc tctttttgcag ctacattttga aagtgataga ataaagagat 360
 tttaatgagt tatcactttt tcagctgata tattcattttt aatggctttt ttgaaagttc 420
 cttttttcatg aacacaccccg agaaatctta aatagacact ttgcaatatt taagaaccta 480
 atgctgtttta atttttggtac agctttccaca ttgcatgttc acttttagtat ttgcaatttg 540
 atatattttca tgggtggcaaa atatttagctc tgtttttggga catttttaaaa tagaactatc 600
 cttgttcgat agcataggaa aatgtttctgg tgattgtcag ggtctcctaa tattttatctc 660
 aattcttttta taagtctatg gaaattattt aattattttta aaacgtacac actttttcttg 720
 taaatatgtc acatctgagt tcaaaaaaat tactttgaat accttaatat ttgctgcatt 780
 tttttccgta tatataacat gtctttctttc agaatgggaa tatatgtgtg cctcccaaca 840
 ttactgtta aagtgtgtta tcttttatatg tcaaaactggt tgaacactgt aatgagaata 900
 aactgcacag agtttaaaaa aaaaaaaaaa aancccnngg ggg 943

<210> 975
 <211> 719
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (703)
 <223> n equals a,t,g, or c

<400> 975
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 cgccgtgtgg taaactgatg aaccccgacc ctgatcaaca tgagatgacc gccgtgtggt 180
 aaactgatga accctgaccc attaggcttt ggctacagaa tgtggaaata agttgtgtta 240
 ctacatgtgt gtaatcctag ggtgcaggac accggccggg aggttccata gagtgatggg 300
 ttctgcagggt aactcatcct ctagtccctc gtaagctcct agaaggaaga aattatgtcc 360
 tttagactaa taaaattcct ccaaaccaaa tacagcacct actgtgaaga cacaagata 420

638

```

cttttagaat agtaaaaact ttatccattg agaaattcct taatgaaaca gtatccaaga 480
agtcatttgc cagcagattt cttagagggtg cgataaagaa gaggacattg ccagtcgtca 540
cagcagctgc aatagctcct ctctattgtt aaacagtggg atatcttgtg caggttttca 600
gttgacaatc aatttttaaag attagtttcg gtcccatca atcaattatt tattaacca 660
tcaataaaaa tttaaatgct ctgtgaggta caatagctwt twnaaaaaaa aaaaaaaa 719

```

<210> 976

<211> 480

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (200)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (201)

<223> n equals a,t,g, or c

<400> 976

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tgtttcattt acagcagctt ttagaacgta agccagataa ttatatgaca ttatctcggt 60
tgattgatct cctaagaaga tgtggaaaac tcgaggatgt cccaagattt ttctcaatgg 120
ctgagaaacg taactccaga gcaaaattgg aaccaggatt tcagtattgt aaaggactgt 180
atctttggta cactggagan ncaaatgatg cccttcgaca ttttaataaa gctcggaaaag 240
atcgtgactg gggccaaaat gccctttata atatgataga gaatctgttt gaatccagat 300
aatgaaactg ttggagggtga agtatttgaa aacctggatg gagacctggg taattcaact 360
gagaagcaag aatctgtgca actggcagta agaacagcag aaaaacttct taaggaaacta 420
aaacctcaga ctgttcagggt tcacgtacag ctctcgcataa tggaaaacta ttggggggggg 480

```

<210> 977

<211> 1994

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (231)

<223> n equals a,t,g, or c

<400> 977

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ctctgttctc tggaatgcca tgatccatcc actgtgcaat atgactctga aaggggtagt 60
atggtaccag ggggagtcca atataaatta taacacggat ctgtacaatt gcacattccc 120
tgactcatc gaagactggc gtgaaacctt ccaccgtggt tcccaggggc agacggagcg 180
tttcttccca tttggacttg tccagttatc ttcagatttg tctaagaaga nctcagacga 240
tggatttccc cagatccgtt ggcataaac agcagacttc ggctatgtcc ccaacccaaa 300
gatgcccaat actttcatgg ctgtagctat ggatctctgt gatagagact cgccttttgg 360
cagcatccac cctcgagata aacagaactg tggcttatcg gctgcatttg gggggccctg 420
ctctggctta tggtgagaak aatttgacct ttgaaggacc actgcctgag aagatagaac 480
tcttggctca caaggggctg ctcaatctca catattacca gcaaatccag gtgcagaaaa 540

```

639

```

aggacaacaa gatatttgag atctcctggt gcagtgacca tcgatgcaag tggcttccag 600
cttctatgaa caccgtctcc acccagtccc tgaccctggc gatcgattct tgtcatggca 660
ctgtgggttg tctccgctat gcttggaacca crtggccttg tgaatataag cagtgtcccc 720
tataccaccc cagtagtgcc ctgccagccc ctcccttcat tgctttcatt acagaccagg 780
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aggaaattaa tagaaagcct cattgaatgg ctttcagcta gcacatggct gtttctatat 960
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tctttataaa attttctcca tccaagtact aaccaggccc gaccctgctt agcttccgag 1260
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ggtaatatga atgtttaaga aatgaaataa gaaacatgtg caggcacttt ggaaggtgct 1560
aagtgactgc cctaaggaat gaaaagcaag ggccagggtg gagtagccca gcgaaggcac 1620
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caagcatata aaaaaaaaaatg cagatgatac aaatatgaaa gaggccttca gtgtttgttt 1860
attaagaatc ttaatgcagt ttactgatgg attaaaaaca gctaacattg tctgaaaatt 1920
atgttaccta taagaagttg gaaataaata aaagcataat cactaaaaaa aaaaaaaaaa 1980
aaaaaaaaaa aaaa 1994

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<210> 978

<211> 611

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (105)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (108)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (279)

<223> n equals a,t,g, or c

<400> 978

```

tcgtcctgcc tctgctcccc aaagtgctgg gcctgagaca ccacaccag cctaaactaa 60
aagccatttt tagtaactcc caccaatgtg gttactgtta caaantnta tggttcctgg 120
gtcatatttg gtatcaraat gtgtatgtat atccttataa atatggaatg tagaactgat 180
aatagtttac ctatcagatt tgcaaaaata aggaaagatt tttagcagct tgtaacaaac 240

```

640

```

atatacatatc ttggataaat aatttagaat ttttaaccna tggctcatat gctcttaca 300
tattctctttt gagggtaaaa catactttat tcttaaactt aaagaacctt tgataagccg 360
tgaattatga tctcagtgac tacatttctt tttaggagtt atatgtgggg gaaggaaaga 420
agtagctagc agggttaaca tggaaagcag gagattatag acaagcatca tttgagcctt 480
tggatactac aaataatctt caaaaatgac aggttttttg gctttttgtt tttcctttcc 540
tttagtgcta gttgcagaat cctatcatat tgtggttaga tttcaataaa gaatgtttaa 600
gattaaaaaa a 611

```

<210> 979

<211> 2497

<212> DNA

<213> Homo sapiens

<400> 979

```

gaattccccg cgctgaggtc ggaacgtytg cgtgtgtgcg ggctggtttt gtggcggtcg 60
ctgctagagc tggagcattt gccggtcagt ataaaaagatt aaactctaca gaagaatgca 120
atcaagtgat ggcttttctt ttagaatttg aatatggagg ctacaggaac agatgaagtt 180
gacaagctaa aaaccaaatt tatatctgct tggaaacaaca tgaaatatag ttgggtgttg 240
aaaacaaaaga cgtatttttag tagaaattct cctgtattat tgcttggaaa atgttaccat 300
tttaaatatg aagatgaaga taaaacgtta cctgcagagt cgggatgtac aatagaggat 360
cacgtaattg caggaaatgt agaagaattt cgtaaagatt tcatttctag aatatggctg 420
acctacaggg aagaattccc tcaaatagaa ggctcagctt tgacaacaga ctgtgggtgg 480
ggctgcacat tgagaactgg ccagatgctc ttggctcaag gactcatact acactttctt 540
ggtagagctt ggacctggcc tgatgctttg aatattgaaa attcagactc tgaatcatgg 600
acttcccaca ctgtcaaaaa atttactgca tcatttgaag catcactttc aggggaaaga 660
gaattcaaaa cccaacaat ttctctgaag gaaacaattg ggaaatattc tgatgatcat 720
gaaatgcgaa atgaagttaa tcataggaaa atcatctctt ggtttgggtga tttccccctg 780
gctctttttg gcttacatca actaatagaa tatggaaaga agtctgggaa aaaagcagga 840
gattggatg gaccagctgt ggttgtcac attttaagaa aagcagttga agaagcaagg 900
catcctgatt tacaaggaat aactatttat gttgcacaag attgtacagt tcctgttaga 960
cttgggtggag aaagaaccaa caccgactac ttagaatttg tgaagggtat tttaagcctg 1020
gaatattgtg tgggtattat tgggtggcaa cctaaacagt catattactt tgctggattt 1080
caagatgaca gtttgattta catggatcct cattactgcc aatcttttgt agatgtcagc 1140
ataaaggatt tccctcttga gacattccac tgcccttctc ccaraaagat gtcttttctga 1200
aaaatggatc ccagctgtac aataggattt tactgtcgaa atgttcagga cttcaaacga 1260
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gacctttttt cagaggatga aaagaaacaa ttaaaaagat ttagcacgga agagtttgtc 1440
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tgaagagaaa caagtatatc tgaaatgttt attttcacia atatcttaat tttatatgtt 1560
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atcaccaaat agtttcaaaa ttctcagttt gtactraaga ccagaagatc agagaaggaa 1860
actttaatgc tgtctagcct cctgctatta atgcaatcaa agaatacttt tgcatatgtc 1920
ttgataatta aatagtattt gttaactgkg atatgcatac acttatataa gcagaattat 1980
gagttaaagt aatacttrgc aatatgattt tataatggct cctcattatg cttgctgttg 2040
aaccttttat gaggagtga tataaagtat tggttttccc tcacaaattt aaagattatg 2100
ttattaatac tattataact gcatcaatca agtcagataa aggcaactat aaaatagtag 2160
tagtgtttgt ttcctatctc aagggcgaaa ttttatggga actcaattta ttatgcagtt 2220

```

641

```

tttaagttta aaataccaag aaagatgtca ctagattctc ttctatgtga tttttgtttt 2280
ttatataaag cagtgtagtgt gtgttttagaa gctgaggcca cctgtaaggc aaatctgcct 2340
taagtgtatt atgtgttact taaaggcaaa tttgtgatct aaaagtacaa gagtgatattt 2400
tgagctagga ttataaaata cataataaag atgtgagaag ataaaaaaaa aaaaaaaagg 2460
aattcgatat caagcttata gataccgtcg acctcga 2497

```

```

<210> 980
<211> 652
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (19)
<223> n equals a,t,g, or c

```

```

<400> 980
ggaaggagggt ttgttgttnc atcaatgttt gtgaaatgat ttccatacat aaaaaatgta 60
atttacctga actttgtctt aagactctta cattggatta taggataaca gataaataaa 120
ctgtatagat acattcagta tcatacaaca ttttggaatg tgtatgcttt caggcttcca 180
agataattaa attactgtca tgatacattt catgcatttt ttatgacttc agtataaaac 240
attcagggtgt gttagccttc cctgggaagg gtaaaccttg atgtgctttg gtaaagtact 300
taaattccaa tgtyccctat agtgcttgca ttcatTTTTgt gaaaagtttt gttgtattgt 360
tagaacaatt ttcaaaggct gatTTTTatgc cttatctgat agaaatatag aatagatagt 420
tctttaattg cttactTTTT aaaagtaata taatatTTTaa gttgcatttt tattaatagt 480
aagattaaca tttaagtctg catTTctTTa aatgTTTTTaa atgTTtatag cattcaatgt 540
gtagttggwt ttacttgact aaaaattagc cctTTaacgt ttatatTTTgk tgkatttata 600
tttaataaag gcatctaatac ttwartaaaa aaaaaaggcg gccgtctaga gt 652

```

```

<210> 981
<211> 323
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (309)
<223> n equals a,t,g, or c

```

```

<400> 981
ggagatatct tctaaaagtg aactggatga attgcaggaa gaggtattat ggccgtgtcag 60
cattccctgt gccctcmaaa ccttaggcct agaatgcgga gctgccaaaca taacattcac 120
ccttttgaac agatggagtc aggcacacta acacagcctt ctgtcctcaa taacacagcc 180
attattgccca cttgctcagt cgtcaatgta aaccctcaga gtcagctgaa ctatttttagg 240
ccaaacatac tgTTTTTgtgta aagtattttt cattaataaa tctataagac agttctattt 300
aaaaaaaaana aaaaaaaaaaa aaa 323

```

```

<210> 982
<211> 403
<212> DNA
<213> Homo sapiens

```

642

<220>
<221> misc feature
<222> (376)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (386)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (395)
<223> n equals a,t,g, or c

<400> 982
tacaaggcctt tggccgacca agtgtgtacc atgctgctat tgctmkcttc cttgaattct 60
ttgcgtgggg cctkttgaca actccaatgt tgactgttct acatgaaaca ttttctcaac 120
acacattcct catgaatggc ctcatccaag gtgtaaaagg cctgctctct tttttgagtg 180
ccccactcat tggtgccctg tctgatgtgt gggggaggaa gccctttctc ctcggsactg 240
tattctttam ctgsttcca atcccactga tgaggatcag cccatgtttt ttaaaaaaga 300
aaacacatca gtggacgtga atgcaatgat gtcttatgaa tgctcacaca gaagcttcca 360
ttcgtgagga atgcanggaa aagcanaaga tggantaaga agt 403

<210> 983
<211> 768
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (40)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (676)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (707)
<223> n equals a,t,g, or c

<400> 983

643

```

ccaggcccta taancccggc accttgggga ggctgaggen ggaagcacca cggagcccca 60
ggagttgggg acccggtggt gccacatagc magaccctgt ctatTTTTTT aaaaaagtaa 120
aaaatagaaa ttatctcact acttaaatacc cattTTTTTtc acttcatatg aaagaacata 180
ttgatagtat attctatatatt atttcataga tctgtctgaa agagattggg aacaaaaata 240
tctaattgag atattcttta atTTTTTtaca tagcagcttt atTTTTTTta ttctgtagta 300
tcagcgaaat cagtcagtgt tataccttga atataaatat caggaatcat gcaattattt 360
ctactatgta tttagtagta tcttatattt gtataacatt attacatttt gcaaattagt 420
atcacaaactg ctaagtagat gtttctgagt attagaaaaa tcagtgttat tacctgcagg 480
atattaaaaa acatttgaaa aagagaaaaa gaaaaatcag tgtttagaaa tgttgatagt 540
tattgaatct ttgaattgaa ttttaaaaaat ccattctagt aatcagagta tactTTTTTT 600
atagaacaag gtggcagggtg gggagccctt tacccttctg gtgaagttaa accataggaa 660
gtttacaatt tgsctnttca caaacmttag cagtccsggg catggtnngc tkragcctgt 720
gratycccrgr catgttggggg aggcccgagt tggggagggt tgcttgag 768

```

<210> 984

<211> 134

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (131)

<223> n equals a,t,g, or c

<400> 984

```

cctgatatac aaatacaact atacaaaatt acaaaacata gtttgkatga aaaccaaaaa 60
tttagtccct aacatttgac ttgcactgtt gccattgcac ttcattgcagc ttataggcac 120
ctttccaggg naag 134

```

<210> 985

<211> 1134

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1120)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1127)

<223> n equals a,t,g, or c

<400> 985

```

gtcggacaaa gccctcgct cggacccttg ccagaactca attaatggat gcctcgaagt 60
tgacgtacat atatattcag aaatgttttg ccacctgaga cctatgagga ggttatgtct 120
agagaagata tttccacact ggtttccctt ttcaagagct ttatcgggag ctgaagcagt 180
caatgccttg aggcctttct attttgcagt acatccagat ttctttggac agcaccctcg 240
agaaagggat gatacatgga agagttttca atgccttagt gatTTTTTcct tatgatgcat 300
gctgctggac cactccccta caacatcagt taatgtgtgc tccaggaata caaactgata 360

```

644

```

tgaaaaatga cttatggtag atgtagtta gacagtcaat atattttaac attagaaaat 420
acagtcagtc cttcatatcc atgggtttta catccatgga ttcaaccaac ctcagactga 480
aaatattagg ggaaaaaaat acatctgtac tacacatgaa caaacttctc tttcttgtca 540
ttattccctg aacaacacag gataacaact acttacatag cacttacatt atattagata 600
ttataagtaa tctagaaatg acttaaagta tatgggagga tacacatagg ttatttgcaa 660
atactacact attttatatg agagacttga gcattcgcag atttcggtat ccacgggagg 720
tcctggaacc aatcccctat ggataccaag ggactgctat gtattacaaa gccacatgct 780
ttggaattac ttcagtgttc cttctatttt cattaacact gatatctagt ttaatatgaa 840
aaggaacttg aaatcttgaa aattagaaca tcgttatttt tttctacttg caatggaaaa 900
tctattttgc ttttttgctt ctaggaaaat attckgatta tgatatgtga tatgttggct 960
actcaaagtc agaacttttc aaagtaatca gttaaattgra tcaacagaaa aatattcatt 1020
aactcgggga tgcawtaata aagtttttaa attcaaatg tatagaaaaa tcaagcttag 1080
taatacttta atattattct accaatgtat ttttttttan gttaaangac ttcc 1134

```

<210> 986

<211> 747

<212> DNA

<213> Homo sapiens

<400> 986

```

ataaatathtt gtgagcgagt tgtagaaccc mttcmagrat ggcaatthtt gaactagthtt 60
ctaaacmaag ggrattgtat cttcamcaga aaatattatg tgagctthtt gggcatatkg 120
atctthttgt agatgtgaat aagcatctct ttgatggaga agtgtgtgcc atcaatcact 180
ttgtcaagtt gctaaaggat ataataatct gtttcttaaa tatcagagct aaaaatgtht 240
cacagaatcc tttaaaacat cattcagaga gaactgatat gaaaacttta tcaaggaaac 300
actggtcac tgtacaggat tataaatgth caagthttgc taataccagt agtaaatcca 360
ggcatttgct aagtaacgat ggatatccat tcaaatgaga gacctaaaat atattaacat 420
tttaattaag aatacttgat caacathttt tgaagthcaa tttaccatat tttataaatt 480
gcgcatthct cacagtggac aagthttgcaa ttctgactta ttaaaatttc aaattctgca 540
tatcacaaaa tctccttata cttttggat ggcttgagc atthtatgag tttccaaaat 600
atagaaagca gtaggtcagt aggagcaaac tagccaacag gtactgtctt tgaatttact 660
actgtaagac taagcagtht tactggacac agthtttaact tgtkcaatct gcttcaaaaa 720
caagaaaaac aacaactatg agthtatc 747

```

<210> 987

<211> 610

<212> DNA

<213> Homo sapiens

<400> 987

```

ggcacgaggg aaatctagac ctccaagtht atgcagcaga gtctcctcca tcttgaaaca 60
aacaaaacat taggctcctg ttgtatcttg gtttagtaac aggcccttaa ttaacttatt 120
tgtacatgag tcttcagag aacactgtht tatattaact ttcagthtga atctttcaga 180
tattttgaat ctctgaacaa ccattgtcag ttgtgaatga tggtaaatth tttggcatca 240
agthctcataa ccccaactga tagaactgth gcttatctgt cttccttaag taththtttag 300
ggtthttgth tttthtttth ttgtthttth gthttgtctc actthttccc caggtctgth 360
gagctgtatg agattcattc atacttcatt tathcattca actaatath gttgaacact 420
tacatgtacc agacattatt aagthgtggg tatatggtaa tgaacagaat agacaaggcc 480
cctgccctth taggggagac agatgagaag taaattmcgg gthtatgaga atgttatgaa 540
ggaaaggmca acaacagaca tgtcttagtc tagggtacat ggctthtatg gaaagthaaca 600
ttctctatct 610

```

645

<210> 988
 <211> 394
 <212> DNA
 <213> Homo sapiens

<400> 988
 ttgaaaattg atacaaacag aatcaggaca gaaaatgggt ccattttgcc cagtgttgta 60
 ccacaagaac acaacacctt gccagtatct caggcacctt ccaaaccaaa tctgacaagt 120
 gaacatactt catatggctt aattttaaca aaaccatacg tcagaccatt gcctcccagt 180
 taccttgatg aacgggtatct taktatgcca aaacgcagaa aatttctgac tgatagagta 240
 katgcctgtt ctgatcaaga taacgtgtat aaaaaatcag tgaaaagatt aagatgtggc 300
 aaatgcctga ccacctactg taatgcagra gcacttgagg ctcattcttg acaaaagaaa 360
 tgtcagacac tctttgggat ttgattcaga tgat 394

<210> 989
 <211> 1481
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (423)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1259)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1481)
 <223> n equals a,t,g, or c

<400> 989
 cgccgcccggt gcctttcctc ttctctctyc tcttccttgg catccgcctc ttcttctctc 60
 tgcgtcctcc cccgtgcct ccgtgtctcc cgacgcggag cccggagccc gcgccgagcc 120
 cctggcctcg cgggtgccatg ctgccccggc ggccggcgtg aaggatggcg acgccgtgc 180
 ctccgccctc cccgcggcac ctgcccgtgc tgcggctgct gctctccggc ctggtcctcg 240
 gcgccgcctt gcgtggagcc gccgccggcc acccggtatg agccgcctgt cccgggagcc 300
 tggactgtgc cctgaagagg cgggcaagggt gtctctctgg tgcacatgcc tgtgggcccct 360
 gccttcagcc ctccaggag gaccagcaag ggctctgtgt gccagcatg cgcgggcctc 420
 cangsggggg cgggccccag cccagactgg aagatgagat tgacttcttg gccaggagc 480
 ttgcccggaa ggagtctgga cactcaactc cgccccctacc caaggaccga cagcggctcc 540
 cggagcctgc caccctgggc ttctcggcag ggggcagggg ctggakctgg gcctcccctc 600
 cactccagga acccccacgc ccacgccccca cacctccctg ggctcccctg tgtcatccga 660
 cccggtgcac atgtgcctcc tggagccccg gggagggcaa ggcgacggcc tcgcccttgt 720
 gctgatcctg gcgttctgtg tggccgggtg agccgcctc tccgtagcct ccctctgctg 780
 gtgcaggctg cagcgtgaga tccgcctgac tcagaaggcc gactacgcca ctgcgaaggc 840
 ccctggctca cctgcagctc cccggatctc gcctggggac cagcggctgg cacagagcgc 900

646

```

ggagatgtac cactaccagc accaacggca acagatgctg tgcctggagc ggcataaaga 960
gccaccaag gagctggaca cggcctcctc ggatgaggag aatgaggacg gagacttcac 1020
ggtgtacgag tgccccgggc tggccccgac cggggaaatg gaggtgcgca accctctgtt 1080
cgaccacgcc gcactgtccg cgccccctgcc ggccccccagc tcaccgcctg cactgccatg 1140
acctggaggc agacagacgc ccacctgctc cccgacctcg aggcccccg ggaggggcag 1200
ggcctggagc ttccccactaa aaacatgttt tgatgctgtg tgcttttggc tgggcctyng 1260
gctccaggcc ctgggacccc ttgccaggga gacccccgaa cctttgtgcc aggacacctc 1320
ctggtccctt gcacctctcc tgttyggttt agacccccaa actggagggg gcatggagaa 1380
ccgtagagcg caggaacggg tgggtaattc tagagacaaa agccaattaa agtccatttc 1440
agacctgaaa aaaaaaaraa aaaaaaaaaaam aagggggggg n 1481

```

<210> 990

<211> 415

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (252)

<223> n equals a,t,g, or c

<400> 990

```

ccacgcgtcc gcggaacgct ggtcncctgan cgttctgtgt ggccgggtgca gccgccctct 60
ccgtagcctc cctctgctgg tgcaggctgc agcgtgagat ccgcctgact cagaaggccg 120
actacgccac tgcgaaggcc cctggctcac ctgcagctcc ccgcatctcg cctggggacc 180
agcggctggc acagagcgcg gagatgtacc actaccagca ccaacggcaa cagatgctgt 240
gcctggagcg gncctgagggtg ggcygastgc ccacttccag actggggccac tggcacctcg 300
agggcatggg gaggacccag cgatcccccc ccacccaggc ataaagagcc acccaaggag 360
ctggacacgg ctccctcggat gaggagaatg aggacggaga cttcacggtg tacga 415

```

<210> 991

<211> 1280

<212> DNA

<213> Homo sapiens

<400> 991

```

agcaccatct ggagtcttcc tgtagtggca aaaaagaaca gtgttgaaat tggaaaggac 60
tttgtgttat ttaggttggt agaattgagc ttaccaataa taagagccct gagcccagaa 120
aaaaggactg tatagttaa agggaggatt gaaagggagg taaaaaatca gattagacca 180
gttcttggcc tatgataagt tccaaaaata ccatttatct actatttgaa aaaagaagag 240
gatatccctt cctacagtaa agggtatgtc agctacatga agttgtaaga aaagcttcca 300

```

647

```

gtagagcttc ttatatataaa gaagttgatg gatatttttg aattttctggt ttgcctgaat 360
ccacctgcag ttacccccgat ccgtttgcaa gaaccagatc gtacttgaaa ctatagtggc 420
cacactctgc cttcctgagt cccttccagt catgtgtgca tcatgtctct ttgccaaagg 480
aggggagaaa ggaactttta aactgcagtt ttaacttttt ctaagctggt tcttgatggg 540
agaggttctg tgcaaaacta ccacattctg tccccaaaat gtggaatgca tccaaatagg 600
agtcttctgc ctcttaactt aaaagaacat aggaattttg tttttggttt ctttatcatg 660
ctacagagag tgaatacact ggaattcaga caccgactct gagctgctag gaacctcatt 720
tgtccatgtg caaacgctgt attccaaggc ctgtgaatgg cagcctgagg aagttttgca 780
tgcaggctgt gttttcgagc aggactaaca actgggaaat aagcaaaaaa ctgcatcgat 840
ccccagcctg gtgttgttct tccctatact tcacactgaa ctcaggatgg gaagaaaaag 900
gaaacaagct ttggcctttt ccatctcaaa agtattgtgg cacctcaaca tttcagtgtt 960
ttgcttttta aaaaatgcc tattgtaagt tgttggttta tactgtataa gtaacactag 1020
tagctgtttt gaataacata ggtgctcttc ctcatctcat ctctacacc gtggtgagca 1080
tacagagtgt cctgatttgt gttaagtga c tgagaagatg ttaattactt ttgaaaaagg 1140
atcatggttt ttgctctact ttataatcaa gacaagtgtt tattaataa ctgttttgga 1200
atgttggctg taatgtaaca gcaattttca taataaaagg cattcatctt taaaaaaaaa 1260
aaaaaaaaaa aaaaaaaaaa 1280

```

<210> 992

<211> 1057

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (989)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (994)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1012)

<223> n equals a,t,g, or c

<400> 992

```

gctttatgac aaagaatata attgggagga tgaagtgtct taaaaattgt agagaccagc 60
tcactggaat gtttttccat cctgtattc atggcttgac tttgtgactg ctctacactg 120
catgtctgac attgcagagt gagctatgtt gaggtaaact ggttggttgt cattattttg 180
caatcagcct ggtctctccc atgaagatgt cgtgtgcata agcacaatca tcactgatta 240
gaagatcaca gcagaatacc cttggattag agagaagttc gtaccttgca tttctctgaa 300
ttctagtctc tcataagcac tgctttgctg gatgattttc actgctttgt gttaatgact 360
ttgagcgatc tctcacatga tggggttctt tagtacatgg taacagccat gtcattctac 420
acacctagca ttgtgaatgc tgtagtga c tcctttatag gcaccttaca gctcaaaact 480
tttgtttcat ttcattgcctt acttatcaaa aaggcaggaa agtaggtatg atctctaaag 540
taaaaaaaaa aaaaaaaaaa aaaacttttt atagaaagct cataaataat catgtcattt 600
tgcaattttg ttaccaaaat ttcccccaag agtttttcaa tattagttct gcaatgtggc 660
tatgaaatat gcactgaaat atacctttta atttgagaac cagtggttag aataagctgt 720

```

648

```

gatataaagt attttcagtg tactttttaa ggaactataa ggccctccag cataaacgct 780
aaaagaatag atggtagcac aggccatgag ggctggggga gagaagcaga gtgaacctta 840
gaaagatggc tcagctatct ggagcactgg atattttact gaagttatct actgaggcac 900
catcactgtt ttgactgtac agtatagttt ttcataaatt tcatcacatt tactttgttc 960
agaatctggg cttgaatctt tgagttggnc aaangcctat ggtttctttt anaaagtttc 1020
atcttgagct aatgctacag tttaaataaa atgtatg 1057

```

<210> 993

<211> 1095

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1043)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1058)

<223> n equals a,t,g, or c

<400> 993

```

cactcagctc tgggtggctc gagcgtgggg accctcagct ccctgacact gccctgtctc 60
cacaggccca taacgacctg tgcgcacgta tkaggcaaaag ctgctggcct tcgggatccc 120
tctggacaac gtgggcttca agcccttga aacagctgtg atcggacaga cgctgggcca 180
gggccccgcy ggactggtgg gcaccccgac gtactgtccc ccctgggggg ccacagccca 240
gagaaccagc ctaggaacac tcgggatgac accccttata acaccaagga cagcaagttt 300
tttagatttt atcatcagca aatgaaaagct tttcacatgt tcttgccatc ctctttcctg 360
gctctgtgga ggagaaccac ctgcaggact ctcacccatg gtgtccctgt cgctcccttc 420
cctgggtgcc gcacgtccag cctgtgtcca ggctactcc ctggtctcac ctccgaccac 480
agtcggcgcc accttctcag agtgccccgc ctcacctggg gggtggggca gtgcgcgctg 540
tgctgcctgt ctctcgccca ctggtgtccc accgaatgga cagcttttga ggtgctggca 600
ctaacttcat tgacacctga gtcacagctg cccagtggga ttctccaggg ggccgggact 660
tccttaggaa gtggtgagcc aatgctccct gatgagcaca aagcccgtc tgttgagggc 720
tgggtgggtg cagccagcgt gcgggaaagg gcaggcagcc tcccgtgcc agtcttcgct 780
ctaactccct cggtagggtg tgtaggacca ggggcacgtg gaacttcttg gccttgctgg 840
tgatggttaa aacaacctga gatggagagg ccaggagaga gtataagggg atagcagcaa 900
accacctatc tggccccaac acacctgaga gaattcagca gccagactg agggctctgg 960
atggggtgaa ccttcgcac cagagggaca ctccacagaa gccacagccc agtaagtcag 1020
gcgttcttgc ggcggtcca gtntgggggt aggcagtnag gttaggccca gagagctgga 1080
gttggtctag atgaa 1095

```

<210> 994

<211> 378

<212> DNA

<213> Homo sapiens

<400> 994

```

ggcacgagct ggtctcgaac tcctgacctc aggtgattca tccatctcag cctcccaaag 60
tgctgggatt acaggcgtga gcactgcgct gggccaggta catttgtgta tgcagtcttc 120

```

649

```

tttttaaata tttttaaaaa tattatttta aaaaatattt tgtagagaca agctttcact 180
atgtttccca ggctgggtctc gaacttcttg cctcaagcga ttcttttgcc tcagcctcca 240
aaactactgg gattacagca tgagccatca tgcccagcta tacagccttc taatttacta 300
aataacgttr atgtgcttga tcatgttccc tggaaaacag accctgagaa ggagatttgc 360
atgcaggaat atttattc                                     378

```

```

<210> 995
<211> 440
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (395)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (418)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (433)
<223> n equals a,t,g, or c

```

```

<400> 995
tggaactccg ggacatccct ctgcgtcccc accctcccg cccccaagct cctcaacgcc 60
gaagcgcccc cgaactgccg gaaggaatcc taaaaggagg cagtcttccc caggaagacc 120
caccaacctg gtctgaggaa gaagatgggg cctccgagcg agggaaatgtg gtggtggaaa 180
cactccacag ggcccggctt cggggccagc ttccctcctc cccaacccat gctgactctg 240
ccgggggaaa cccctgggag tcctcagggg aggaggaaga agaggggcct ctgttcctga 300
aagctggcca cacatccctg cgcccaatgc gggctgagga catgctcaga gagatccggg 360
aggagctggc cagccaaaagg attgaggggg ccgangagcc ccgggacagc aggccacnga 420
agctgaatcg ggnccagctg                                     440

```

```

<210> 996
<211> 222
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (222)
<223> n equals a,t,g, or c

```

```

<400> 996
gtgggttgat accccttcga attacccta aaggacaaaa cggacccacg cggggggccg 60
ctctagamta gtggatcccc gggctgcaga attcggcaca gccagattgg gttccctttg 120
caaaacatcc cccttccttg agatgatgat gccatcgaag cccgggcccag ggcttgacct 180
gcaggcacac acctggccag tggctctgag gtccccggga cn                               222

```

650

<210> 997
 <211> 772
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (769)
 <223> n equals a,t,g, or c

```
<400> 997
gtgcagcatc aacgggaccc tgtaccagcc cggcgccgtg gtctcctcga gcctgtgcga 60
aacctgcagg tgtgagctgc cgggtggccc cccatcggac gcgtttgtgg tcagctgtga 120
gaccagatc tgcaacacac actgccctgt gggcttcgag taccaggagc agagcgggca 180
gtgctgtggc acctgtgtgc aggtcgccctg tgtcaccaac accagcaaga gccccgcca 240
cctcttctac cctggcgaga cctggtcaga cgcagggaac cactgtgtga cccaccagtg 300
tgagaagcac caggatgggc tcgtggtggt caccacgaag aaggcgtgcc ccccgctcar 360
ctgttctctg gacgaggccc gcatgagcaa ggacggctgc tgccgcttct gcccgcygcc 420
ccsgcccccg taccagaacc agtcgacctg tgctgtgtac cataggagcc tgatcatcca 480
gcagcagggc tgcagctcct cggagcccgt gcgcctgget tactgccggg ggaactgtgg 540
ggacagctct tccatgtact cgctcgaggg caacacgggt gagcacaggt gccagtgtctg 600
ccaggagctg cggacctcgc tgaggaatgt gaccctgcac tgcaccgacg gctccagccg 660
ggccttcagc tacaccgagg tggaagagtg cggctgcatg ggccggcgst gccctgcgcc 720
gggcgacacc cagcactcgg aggaggcgga acccgagccc agccaggang ca 772
```

<210> 998
 <211> 552
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (429)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (510)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (548)
 <223> n equals a,t,g, or c

```
<400> 998
ggatgttggg aactggctgt agagccgcag tggttcctga tattaaagaa atgttgttta 60
aagctgtttt tcttacaccc tatttgctt tgaaatttta aaagcattca ctttacacat 120
ctgttttgcc tttttacaaa acttttttta aagagagccc tctgccacca aaatatgctt 180
gacctcatca tcctgagatc actgctatca aaatatttgg tgtatatattt ttccctagct 240
```


651

aatttgtgtg tgtatataca ttctatataa ttgttttatt gtgtacaatt tgtgtaacta 300
ttatctgctt taaagggtta acagtacctt tttctgtcat taaatagtgt gcaaaagcat 360
gtgtagtaac tgcactatat gactgtctct ggtccagagc ataaatttct tcaactggtct 420
cctgtacang ggtctgcaaa cttttaagtt ggctagccta atacatattt ttagactttg 480
ctggtgatat ggtctcctgt cctaactacn ggaccctggt ttttttttaa gaacaaaaaa 540
cgccgcangc tt 552

<210> 999
<211> 681
<212> DNA
<213> Homo sapiens

<400> 999
aattcggcag aggcagtgga gcgcaacttg gtgcggggtg ccgaggtctg gctggatgag 60
tataaggagc tgttctatgg ccatggagac cacctcatcg accaagggct agatgttggc 120
aacctcacc cagcaaaggga gctgcgaaag aaactgaagt gcaaaagttt caaatgggtac 180
ttggagaatg tctttcctga ctttaagggct cccatttgtga gagctagtgg tgtgcttatt 240
aatgtggctt tgggtaaatg catttccatt gaaaacacta cagtcattct ggaagactgc 300
gatgggagca aagagcttca acaatttaat tacacctggt taagacttat taaatgtgga 360
gaatggtgta tagcccccac cctgataaaa ggagccgtaa ggctgcaccc ttgtgataac 420
agaaacaaag ggctaaaatg gctgcataaa tcaacatcag tctttcatcc agaactggtg 480
aatcacattg tttttgaaaa caatcagcaa ttattatgct tgggaaggaaa tttttctcaa 540
aagatcctga aagtagctgc ctgtgaccca gtgaagccat atcaaaagtg gaaatttgaa 600
aaatattatg aagcctgaag tgtaactgat gtttttatat agtaaacca ttaaatactg 660
tgaaaataaa aaaaaaaaaa a 681

<210> 1000
<211> 689
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (639)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (653)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (672)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (686)
<223> n equals a,t,g, or c



652

<400> 1000

```

gcgtggggcc  gggcggtgcg  gtcgcgggct  ggggcagtg  agtgagtagc  ggtcttgggg  60
tgtgcgatct  cgtgagcct  cctcacacgg  ttcgtcgtct  cgggttcgag  cccagtggct  120
tagccactcg  ccatggactc  ccagaaagaa  gctctacaga  ggatcatttc  aactctggca  180
aataaaaaatg  atgaaattca  gaacttttatt  gatacactac  atcatacact  aaaaggagtt  240
caggaaaatt  cgtccaacat  actctcagag  ttagatgaag  aatttgatag  ttataactct  300
atactggatg  aagtaaaaga  aagtatgatt  aactgtatca  agcaggaaca  agctcgtaaa  360
tcccaagagt  tacagagtca  gattagtcaa  tgtaataatg  ccctggagaa  ctctgaagaa  420
ctattagaat  ttgcaacaag  gtcattagat  ataaaggaac  ctgaagaatt  ttcaaaggct  480
gccagacaga  tcaaggatag  agtcacaatg  gcttcagcct  ttcgcctttc  tttgaaacca  540
aaggtcagtg  acaacatgac  tcattttaatg  gtggatttct  cacaggaaag  acagatgctg  600
caaactttga  agttttttgc  cagtcccaa  arctccaana  tagatccagt  tanaattgtt  660
tgggtgggca  anataacttc  ctgttncaa  689

```

<210> 1001

<211> 543

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (537)

<223> n equals a,t,g, or c

<400> 1001

```

gatgattgtt  aggatatttt  aacaatgaag  tattttttaa  ttaaggtagt  tattttctta  60
ggcataatgc  tattgcacac  ttagtaaact  acagtatagt  ataaacgcaa  cttacatgca  120
ctgggaaact  gaaaaaatta  tgtgacttgc  tttattgaga  tactcacttt  attgtgggtg  180
cctgaaacca  aaccgcgagt  acctgtgagc  atgcctatat  ttgatacaat  aggaactata  240
ttgcaggtag  taaaaaatga  tgaatagtgt  tagttcaaag  cgatagatga  tttgtatgtc  300
caaattaaag  aaaagcatgt  atgggaaaaa  gattgtcatt  tttatgtaaa  trataaagt  360
ctttctgaat  tgtattttaa  gaaaagaaga  ttttataagt  ccaaagaatc  acttaataca  420
atgaataaag  ggtaataatt  taccactttt  ggattacctt  twatttaaga  cataaatttt  480
tcaactcata  agctwtttaa  aawcttttca  cttaaraaac  ccggtggaaa  atttggnnta  540
agg  543

```

<210> 1002

<211> 469

<212> DNA

<213> Homo sapiens

<400> 1002

```

aacctttcca  cactataaat  gatatgacta  ctgtttgggg  tttctggggc  cccatccgtg  60
tacgtatgtg  gcatttccag  gtatgactga  gtgtgagaga  catgtcagag  gctcttcagt  120
gatttcttgc  tattgaccga  tgcttcaact  tgccaaaaga  gaaaaaaaaa  gttgggtttt  180
gtaattaaat  tttttatata  tttttgaaac  ccgaattgaa  aatggttcag  gcaacgggct  240
acagctttat  tagtggttct  ctaactgtgg  tctccttggg  ccaagcaatt  tctttaaagg  300
aaaagttgat  tatgtatgtg  ggggtgccag  accactgcct  tgaaagcaag  tgtgattttt  360
atttttaata  ttatttttatt  tgtgtctgtg  tacatatcca  tgtataaatt  ttatgaaacc  420
caagcatagt  gcttattttt  taataaaaaca  actgacttaa  aaaaaaaaaa  469

```

653

<210> 1003
 <211> 543
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (11)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (59)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (90)
 <223> n equals a,t,g, or c

<400> 1003
 ccgggaaaac nttcaaawgt awscctaaag caactggaag graaaatgaa gcccamtgna 60
 gtgagtgaag aaaactkgaa ggaaagtggg aarattccag agttccawtt cctatcctag 120
 gttaaatttg gagacatacc cagagcataa gttaagtaag taattgaaat attggagtgg 180
 agacttattt gtctaccgaa ttattgtttt ctttgtcgga catacaccta cactgcattc 240
 cctcaaagta aaatttaagt gtggctctgt gcctatgctc tccccagcgg aaagtgacca 300
 gaagaggtgt gcagtttccc aggcctggcc catacagacc tccaacagggt gctccccctgt 360
 gctgttactc cttctgccaa ctggaagcag atgggtgacca ggctctggag aaggcaaggc 420
 ctgaagatgg gagattccta agtggaggag aactgtgcct tactgaccta aatatccact 480
 cagtattgtt atgtgagaat aaataaactt gtgttgaccg tttaaaaaaaa aaaaaaaaaa 540
 att 543

<210> 1004
 <211> 895
 <212> DNA
 <213> Homo sapiens

<400> 1004
 tgtcttcatt tttcctcctg tctgcattcc tctctctctc tctccctctc tctcctgttc 60
 ctctctttct tctcctctct cctgcctttt ccatttttccg ttccctgggt ttgtgtgtct 120
 gcactcctcat cttaccctct gcctgactgt accccgtaga cccctgtttc tctcctgca 180
 cctgtgtccc catctgcctt tcttgttctt cctgtcatgt gtcaccatct tccctcctgt 240
 ctgccttctt cctccacttg tgtcagcttg ctttttttta ttccctgactg agtcaccaca 300
 cccctctccc ctgatcaaag ggaatattag tttttaattt ggatcgactg aggtgccagg 360
 agaaactgca gtcccaggta tccagacagc caccaggatg gtccctcgcc ccacccccac 420
 cgctctctcc cactttttcc aacgtgttgc atgtctgggag ctgggggggtg tggggggaagg 480
 ggctgccggc ttcttttcagg aggcctgagg ttggaggcaa aatcaacctg ggagaccacc 540
 ccggcccgcg cgctcagtg gacaggtggg aggaaaagaa aacttcttac cttggaggag 600
 ggacatcccg ctctcttctc cttagctttt ttgttgcctc tccccactgc cccttttaat 660
 ttatttggtt gtttgcggag ggagggggga ggggggtagg ctggggccggg aactgtccga 720
 ggtgctgagc tggggcgagg ccggaatcct cccggtaggg tcccagggac tgagttggcc 780

654

tggggccgtg tccaaggtgc caatgatgcg ggccgacaga gcgggcccga ctgtctgtct 840
gtccgtctgt cccggaaaga actataaagc gctggaagcg cctgcaaaaa aaaaa 895

<210> 1005
<211> 763
<212> DNA
<213> Homo sapiens

<400> 1005
gggggcttca tcgctcatag aatatgttat tttcaaagaa gttcaagaat tttcaagttg 60
agcctttgaa aatcccataa attggtttta gctaaacact tactagtagt gtctttaaat 120
tatttaataca accttgtctt ttcaaggaaa ttaccactt aaagagatag ttggtaaata 180
aacatctatg ccttttctca gaaatgattt gctgaactat gtccatattt tacagcttag 240
ataatagttt atatggaaac tattatacat ctgctattgt gcaatgattg ttaaattata 300
ctgaagtagc tctagaaaga cacatgtata caaggcacta ttgtacacac tttgctgaat 360
attttgtcag ttgtatttac aaagaaaggt actttcttaa gagcatatat gttattaata 420
tttgatatga ttttaaagtc agaatagtac agattgctga gtattatact ttaggctaga 480
ttaattaaaa ttgaatactg aaagagattt tttgagttgc aaaaagttaa taaatgcaa 540
gcaaaaagaa aacatttatt ttctgagtct gcaggagaaa caaactaaac attatagttt 600
tatagctgct atcttgttaa ccaaacaggk tgttcataat attaaaaatc ttacgtagtt 660
gtgttaaact gaaccagttc attatacctt atgcattaaa ttaaataatgt tataaggtgg 720
ctttacttgt ctttataaaa ataaatatat ctactaaaca tga 763

<210> 1006
<211> 353
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (205)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (275)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (303)
<223> n equals a,t,g, or c

<400> 1006
ctcactaaag ggaacaaaag ctggagctcc accgcggtgg cggccgctct agaactagtg 60
gatcccccg gctgcaggaa ttccggcacga gatTTTTTgt gtatgtgttt cttcccgat 120
agctacatta ttggttactt gccaaacaacc ccatatactt actatTTTca aaatctaagc 180
agatagcaaa aagctcacca cagancataa aatgaatgga ttgctTTTTt aaaaaaagtg 240
gataattgaa tgaataaata catTTattgt ctctnattga acctgcttgt aagccctaca 300
tantgccccat acagccctaca aattcacatt ccacatgggc gactccacct gct 353

655

<210> 1007
 <211> 546
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (535)
 <223> n equals a,t,g, or c

<400> 1007
 ggtgatgaac agttctgtat cctgattgcg gtggtggttaa cgtgagtcta tacatatggt 60
 aaaatTTata gaactgcata ctctcaaaaa aattagtttt actctataat aatattagag 120
 cttaaaaaat tcatccctct tgcccatcag tagatcagga tatgaaggat accattgaac 180
 ataaatattt tgtatccatg atgaatacaa agtatattct cctggaaaac caatagaaca 240
 ttcatataaaa tgattcctat gaaggtaaaa aacttacaaa attcaaagat catacagatc 300
 atgtgctctg tataatgtaa taatagtaac aaaaggcctg tccacttgga aattttttaa 360
 tgatcttcta aataactcat ttaaaggaga aatcaaaata aattgcaaat tatttagaat 420
 taataaaaaac ttctctaaag ctgaggaatt ctaccmaaga ggtgttagag gaaattgtat 480
 agatTTtgaw ttacttTtyca rggaggaaag gaagrccaa gagtgratta aacantTTta 540
 aagctt 546

<210> 1008
 <211> 4015
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (4000)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (4010)
 <223> n equals a,t,g, or c

<400> 1008
 ncgggcgcgc gccgaccatc gactcgccaa cgagagaagg tcctgggggca cggacaccga 60
 cgggttgCGa ctgtgacgtg aggtgttctc gcgcgcgcta cgtctccggg tgccgctgac 120
 gggcgtgcgc gcttgtgcgg agccggaggt gggggccgaa ccagccaagg ttgcgggggc 180
 cgcagagccg gacgaagacg gagggcggag cggcttcggg actgcggaga ctacacaccg 240
 agcgagcgcc tgggcccga gtagcgatgc tgtggttcca gggcgccatt ccggccgcca 300
 tcgcgacggc caaaaggagc ggcgcggtct tcgtggtggt cgtggcagg gatgatgaac 360
 agtctacaca gatggctgca agttgggaag atgataaagt tacagaagca tcttcaaaaca 420
 gttttgttgc tattaaaatc gataccaaaa gtgaagcctg cctacagttt tcacaaatct 480

656

```

atcctgtagt gtgtgttcca tccagtttct ttattggaga cagtggaatt cccttggag 540
taatagcagg aagtgtttct gcagatgarc ttgttacaag aattcacaag gtccgacaga 600
tgcatttgct aaaaagtga acatcagtag caaatggcag tcagtcagaa agttcagtgt 660
ctactccatc tgcgtcattt gaacctaaca acacttgtga aaactctcag tccagaaatg 720
cagagctttg tgagatacca cccacttctg atacaaagtc agatactgca acaggaggag 780
aaagtgcagg ccatgccact tectctcagg agcctagtgg atgctcagat cagagacctg 840
cagaggacct caacatccga gtggaaagac taacaaaaaa acttgaagaa aggagagaag 900
agaaaagaaa agaggaagaa cagagagaaa ttaagaagga aattgagagg agaaaaactg 960
gaaaagaaat gttggattat aaaagaaaac aagaagaaga attaacaaaa agaattgctgg 1020
aggaaagaaa cagagagaaa gcagaagata gggcagctcg agaacgtata aaacagcaga 1080
ttgcattgga ccgtgcagag agagctgctc gttttgcaaa gacaaaggaa gaagtagagg 1140
ctgccaaagc tgctgccttg ctagcaaaac aggcagaaat ggaagtcaag aggggaatctt 1200
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ccaaagaaga ttataaaaag aagttaactgg atttggaact tgccccaagc gtttcgggtgg 1440
tactgttgcc agcaggaaga ccaactgcat ccattgtaca ctcttcagc ggagacattt 1500
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tcttgtttag taatccgct cccacacaga cttcagtgag agtaacatcg tcagaacccc 1620
caaaccctgc atcatctagc aaatcagaaa aaaggggaacc agtgagaaaa agagtgtctg 1680
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cagtgaggca tcactttgtt tgcataaagt atacggtttg ttaaggcctt tgttcttctg 2580
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atatgccttt agtcattttg ttttcttaa aaagttgaga ttcttaatct gacttacatg 2760
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aatatttcat accgtttgat ccagtagctt cttctaaatc ataaatgcag acaatgttta 3120
ggtaaagaca tactcattaa gtgttattta ttttactcaa gaactggaaa ccaactaaat 3180
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tataggtaga gtgtgatctc agctttgcaa acacattttc tacatagata gtactaggta 3360
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tttttagtgg atttttggca ccttatata tgttttccaa actttcagca gtgatattat 3480
ttccataact taaaagtgga gtttgaaaaa gaaaatctcc agcaagcatc tcatttaaat 3540

```

657

```

aaaggtttgt catcttttaa aatacagcaa tatgtgactt tttaaaaaag ctgtcaaata 3600
ggtgtgaccc tactaataat tattagaaat acatttaaaa acatcgagta cctcaagtca 3660
gtttgccttg aaaaatatca aatataactc ttagagaaat gtacataaaa gaatgcttcg 3720
taatttttga gtaggaggtt ccctcctcaa ttttgtattt ttaaaaagta catggtaaaa 3780
aaaaaaattc acaacagtat ataaggctgt aaaatgagaa ttctgcccc tcacctctta 3840
ccccagtact attctccaga ggtaatctat taacaatttc ttatgtaatt ttcagaaaat 3900
ttgtatgcgt atataagcaa atatgtaatc tttatttttt aaataaatgg gatcatatta 3960
tawaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaa 4015

```

<210> 1009

<211> 401

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (376)

<223> n equals a,t,g, or c

<400> 1009

```

gaactgttga aaaactgttg tactgatgtc accggtgatt gaaggggtat ctttaattgg 60
ctaatttgaa agaaagycac aaaagaaaag catgaataac caaaatcctg ggatattttc 120
gaaactcagt cgaggtcagt agatctgtct gggactacat tttccatccc agttcctaac 180
aaagtttcat tttcttttct ttattctctg atgtaagagt taacagtgaa atgacaaaaa 240
tcctgaaagc caatggagca acaataaaca tactcagata gattgcctca taaattcttt 300
cmagttagtt tttaaaagta acacattttt taaaagtcca cttkgcaaaa tgataattta 360
atatctgggt atcagnctct ccaaaggatt cctggaaaaa g 401

```

<210> 1010

<211> 756

<212> DNA

<213> Homo sapiens

<400> 1010

```

gcgtgcacca gccagacctc atgaactcag gaaggtgctt gtccaggagt tcctggttgc 60
tgtgcccttc acaggcaaaag actgcatttc ttccctcagct gycagtgagg tgctgssagg 120
attccctgta gaactktcag gccagtttat gaactggttg gmaccygtgt cctcytcctg 180
gcccaggmag gagaaccatg agcaggcaga aggagacttt gcaaagtgcc ttccccagca 240
tgtgtgccct ctgcccttca gagcctgcag atakkagggg tggcaaggac actgttctca 300
atgagcagaa cctccaagac acccaaaagct gcctgtttgc cacctggccc tatgcctgcc 360
cctgtttctc cctcaaggcc ttcacccatg ctagggcagt cacctggaat gtcctttcca 420
ttaccctgc tgtaatgcc agcacagaac ttgatggcag gcctttgcat ggtagcctga 480
agcgatctca cctttctaac tgggtttgcc acaggcacac tggctcatgc ttacctgtgc 540
tgctgtgggt tatagttatg cgaattgtgg ttttacatcc ctaaaacaga agggcacggg 600
gtccagggga tagcaccag cccaacttca gtgtagacct gagctgggag ggaacctgtt 660
agtctcccca cctcttcctt gaagagacag gcacccctcc cagccgtggg caacggaggg 720
agtggcactt ctgccttgag tccccagggg aaaaaa 756

```

<210> 1011

<211> 393

<212> DNA

658

<213> Homo sapiens

<400> 1011

```
tgcacccacg cgtccgtaag atatgacagg tggcgacaag tgctgagaag aaaaattgag 60
gaggggtgagg gagtagagtg gccaaagagcc tgggttttcag cagagggagc tggagaaatga 120
acccagggggc gctggagctg ggggctgtggg agagtgtcag agagctggca tgaactggca 180
ggttgccctgg aggggagggc tggttccaaa gccagtcctta tagcaatttt tccatttctt 240
gatatgtgaac tttggaagag ctagggggtkg ggaagatggg aagttgaacc acctctgaga 300
taaaactctc tgarggggct gargtkgwcc tgggttgggg tgccccctgct actggcmaga 360
gagaagcmaa ctccatatgg aagtaatctg gtt 393
```

<210> 1012

<211> 938

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (812)

<223> n equals a,t,g, or c

<400> 1012

```
ccggcatcgg ccaccacgcg caccggggcca cgcccaggcc ctgctcctcg atgccctctg 60
cctgctcctg gacattcttg cacccaagct ccgccccgtg agcacacagc tgtacacacc 120
cgtgaaaagc aacagctggc cagcctgggtg ggcacgatgc tcgcttacag cctgacctac 180
cgccaggagc gcacgccccga tggccagtac atctacaggc tggagccgaa cgtggaggaa 240
ctctgccgct tccctgagct gcctgcccgcc aagccccctca cctaccagac gaagcagctc 300
atcgcccccg agatcgaggt ggagaagatg cggcgggcgagg aggcctctgc ccgkgtagag 360
aacagcccccc aggtggatgg gagcccccca gggctcgagg gtctgctggg gggcattggg 420
gagaaagggg tgcaccgacc tgccccacgc aaccatgagc agcggctgga gcacatcatg 480
aggcgagcgg cccgggagga acagcctgag aaggacttct ttggacgtgt ggtcgtcagg 540
agcacagcag tcccagagtgc aggggacacg gccccggagc aggactcagt ggagcggcgc 600
atgggcacag cgggtgggcag gagcgaggtc tggttccgct tcaacgaggg tgtctccaac 660
gccgtgcggc gcagcctgta catcagggac ttgctctagt tctctgagcc gcgggacatgc 720
cctcgcatth cttcccgcag agtgacagaga caggaagctg gagatgtctt tataaagtca 780
cacctttaca gactgtaaaa aaaaaacggc angagcatga atgtatgaac tggagggaagt 840
tacttacagt gggaagggtt cttaataaca aggtctacct agcatgaagt atttaacatt 900
ctcccattcc cttaaaaaat atacatttta ttaaattgg 938
```

<210> 1013

<211> 523

<212> DNA

<213> Homo sapiens

<400> 1013

```
gaagaaactc actttccctg tggcacgtta atcttcattg ttttaattct gaagcataac 60
gtgccacagg gaaagtgagt ttctttactg tttgccagca gcaaggacaa aaagtgaatg 120
gtggggggccc aggagctccc agcttggaga gaaggccctt ccagacccag gaacccgggg 180
tttggggcag gaggcaggaa ggatgggagg gtgtgatcac cgacacacac acacacgttc 240
tctctcttca gggaagggtt ttccagaagc atttgccccat actctgaatg aagtattttc 300
atgccaaagcc aaacctcctg aagagaagtg aattcatggc tgaggggagcc acgtgccctg 360
```


659

```
gctgggggatg cacctgaacg ctgctcttca gcaagtgagt tcatagcatc caccagagct 420
tcccagctcc tcaagctgaa gacaggctga gcaaaaacca ggcaggccat gaggggattc 480
aaagaaacct aataggattg ggtgcggtgg ctcacctcgt gcc 523
```

<210> 1014

<211> 232

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (222)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (230)

<223> n equals a,t,g, or c

<400> 1014

```
gcaaaaaggt agctggagtg ggtttaaaat ttcgtataat ttcgtatgtg agcaagctgt 60
gtgattttaga ttatttttaa gattaaatgt ttttcaggta ttaatggtaa actataaaa 120
gtttgcttct gtataaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaggg gnggccgtn ta 232
```

<210> 1015

<211> 423

<212> DNA

<213> Homo sapiens

<400> 1015

```
tttttagagaa ctttcagagc actgattttt gatagactaa gtggaaaatt tgcagagaaa 60
tgatggttgt aagtggacat gcaaaccaaa attggggatt ggagaagtca gactcactag 120
acttttggtt cgagtactat tgaactctct cctgatgaga agatgttttag ataagtacaa 180
gttaagaaaag tagcatatga ctggaaacta tattcagtgct actttctcca aaagactacc 240
cagaaaaata gacttatttt caaataccag ttatcaagat atattaaata gctgtattgt 300
ttagaatctt aatatgggat aaattagcat atgtattcac aatattcatt cagacatcat 360
tcccagacag cagggtattt tttaaatggt agctgtctga gttttttaa atagctaatacg 420
aca 423
```

<210> 1016

<211> 874

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (802)

<223> n equals a,t,g, or c

<220>

660

<221> misc feature

<222> (866)

<223> n equals a,t,g, or c

<400> 1016

```

catttttagcc ctaaattacc tgtggctggt tcttttttatt tttttgacta ctttttatatt 60
ataaatgtgt gttactgtct tatgaattca tggcaatata gttggatagc ctggatactt 120
tgtttagatga gtattttagct gtgtctgcaa atcttaaaag ccattagcaa agaktcgtgg 180
tatttttttc tttattttta aatgtttggg caccaaacct aaaagcaaaa gattgacgaa 240
rcatgtttct ctttaaggcta cttgtatttt acaataacaat attaaattat ttaatttgag 300
aaatttagtt ttgcttatat gcacttttta aatatatact attttgaaga ttccttatgt 360
aaatgcaaat ttcttagtta aaaccgaata acagagatct gaaatgactg agaaaaactt 420
ttttattaaa ggaagggaatt aatttaaggc aatttttaac tatgtagaac taattgcca 480
tgtttaatta tagcagacac gccattctaa caggtatttg ataccattgg atgcattatt 540
ctagggtttt tctttaataa aaatggaaca agttttcatt tacattccaa gctgtcagga 600
aatgaagaat attttattat ctaggatttt atctgatgta gttgcttaaa gatctgatgt 660
gctataattc catgaatcag aaataataaa atgctatcat tctggatctg aagacttttg 720
atactttttc aaaagcaaaa ttaatttcag gaacctttga taagtgttg ttataattaa 780
tctaattttg tatagttttt gnaaataaat taccatcctt cacaattagg gatgctttta 840
tccccccatc actaaattgc agttgnttga tacc 874

```

<210> 1017

<211> 1287

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (34)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1286)

<223> n equals a,t,g, or c

<400> 1017

```

ggcatataag gaatcttcaa aatagtatat attnaaaaag tgcataataag cacttttttaa 60
atatatacta atttgcattht acataaggaa tcttcaaaaat agtatactat ttgaagattc 120
cttatgtaaa tgcaaatttc ctagttaaaa ccgaataaca gagatctgaa atgactgaga 180
aaaacttttt tattaaagga aggaattaat ttaaggcaat ttttaactat gtagaactaa 240
ttgccccatgt ttaattatag cagacacgcc attctaacag gtattttgata ccattggatg 300
cattatttcta ggtttttttct ttaataaaaaa tggaacaagt tttcatttac attccaagct 360
gtcaggaaat gaagaatatt ttattatcta ggatthttatc tgatgtagtt gcttaagat 420
ctgatgtgct ataattccat gaatcagaaa taataaaatg ctatcattct ggatctgaag 480
acttttgata ctttttcaaa agcaaaaatta atttcaggaa cctttgataa gttgttgta 540
taattaatct aattttgtat agtttttgta aataaattac catccttcca caattagggg 600
tgctttttatc cccccatcac taattgcagt tgthttgatac caaaataaat ttacgtagag 660
atccttaact taaaataaat taattttttc aaaaaacata aatctggaac tgthtttct 720
atatttgata acaaatatag tatattttat ttataagcca tgggtctactg atactgtatg 780
aggactttcc ttatatataa aagttgcagg gattgtgttt tattagctgc ttaattatg 840

```

661

```

ttaatttttag agagtttttta aatggaaata gaggacattt atgaaacgct ggaattgcag 900
ttacaaattc tttttgttgt tggtgttcct gaacatgcct tggaataatt ctaccatttt 960
ttccccctcc ataaatcttt ctaataaaagc atagaaaaag cctatatgat tttaaatgcy 1020
tctcttaagc tggtaaacag atttgagtta tgagttcatt gttattgcct tcaagatgaa 1080
aagacagtga tataattttt ctatttcaac ttaaaagtaa tagttaatat gctaaagtag 1140
tacagaataa actttattgc tgcttactaa ctacaaaata ctgtagatgg catctgtatg 1200
attaaacata taaagtaaaa caggtctgag ggctttgtag atgattaaag tctccacctt 1260
catgaaaaaa aaaaaaaaaa aaaatnt 1287

```

<210> 1018

<211> 462

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (425)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (458)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (461)

<223> n equals a,t,g, or c

<400> 1018

```

attgtgatga gttatccagt aacttacagc atatcagtgc tttctgattc ataagataag 60
tctgttcttt aaaagtactt aactaaagta tatgtacta caataaaaag ccttsaagta 120
tgtcaatatt aatccccaac ctacctcaag aaatcccttt aacctccaga aattatcact 180
gtataaattga catacaactg aaaaatacag cacatcgaat ctagcaattt atcctattaa 240
ttgccttatt aaggtaacat ctttcaaagg gaaaaaaata aatttttagta atgtttcagt 300
catcttttaa tctaaaattg tgaagacatt ctgaaacttt gcttagttta caaatataaa 360
gatttccata ctgacaatta ccaaatacca aataccttta ctggaaagaa acctagtgtg 420
aaacnattac cgggatcaag tagcctaaaa tttagtangg ng 462

```

<210> 1019

<211> 366

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>

<221> misc feature

662

<222> (81)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (167)

<223> n equals a,t,g, or c

<400> 1019

```

cactacccta ntaaggaggt catctctcct aaattatatt caccctgact gtgggggataa 60
tcatactcct caattcaggg natactatta ttatcagtct gtccaaggcc tctgttggct 120
tattttatatt ttttaccccc tttatcacta ctccccccatt tcctccnaaa ccttcataag 180
caaaaactta attgtctggc atctgtcttt ggatatggag tgtttctttr aaaaawatta 240
agtgttgttt tacatatatg tgtgtgtgwt twaaattttc ataaatggca atatgctatg 300
aatagccttc ttttatatatt ttcattaaat actctttcaa aatgaatcca tgatacagca 360
tggccc                                     366

```

<210> 1020

<211> 750

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (684)

<223> n equals a,t,g, or c

<400> 1020

```

ggaagaacca gcagtgaaag atggantagg aagcagaggg aagaggggaa ggatgtgttc 60
acaggagagg ccaagaggca gcgggggtgg gatgaggggt gcaaagcgtg aatttatgca 120
tttctccagt ctaggtttag ttagtatact ccctgtgaat gtcaataacct gtaaatgata 180
cttttaatga agggagatta tccccctgaa tgtttggttt gtatcttgtc ctagaccag 240
agttgccatt ctctaaatat ctaaataact attattatatt tatctctctc ttttacacac 300
acacgcgcac acacacacac agagaaatgt tgtttatgag attttgtata tttcacatac 360
ttcatattct ttatatgata gatgaataat gtgtagtgtt tcaaagtttt gagttaatta 420
caatttaggt actatttcta aaaggaagat atatttgtgt tcttactttg gtggctgaga 480
ttacttaaag gggataattt gtccecaaat tcctaagaat ggtacaggaa ttctaagggtg 540
actaattctt atttcatttt tttatgaata cttttatctt gaaatgtgta atacaaatct 600
ggtcagagtt ctatataaaa attatattgg gaatcagact tatgtgtgtg tactttttat 660
ttgatattta ataatgcctt aagnaggtta ttcaaatttt tattaaagtg aaatgatttg 720
acagtcagac tttgaattta atgcatgcat                                     750

```

<210> 1021

<211> 1333

<212> DNA

<213> Homo sapiens

663

<220>

<221> misc feature

<222> (133)

<223> n equals a,t,g, or c

<400> 1021

```

acaagggtttt gaacgacaga ctacagctgc tgttggagtg ctgaaggctg tgcactgtgg 60
agagtggcct gatcaacccc gtttaaccaa agatgtaatt tgttttcatg ctgaagattt 120
cttagaagta gtncaacgaa tgcagttaga tttacatgaa cctccactgt cccagtgtgt 180
ccaatgggtt gatgatgcaa aactgaatca actgaggagg gaaggcattc gctatgccag 240
gattcagcta tatgataatg acattttattt tattccaagg aatgttgttc atcagttcaa 300
gacagtttca gctgtatgca gktttagcatg gmatattcgg ctcaaattat atcactcaga 360
ggaggacamt tctcagaata cagctactca tgaaacaggc acatcatcag attccacatc 420
atctgttctt ggacctcaca ctgacaacat gatttgtgct gtaagcaaac ctcccttgat 480
tctgtttttt cagataaaact tcattctwaa tatgaattac agcagattaa acatgaacct 540
attgcatctg taagaatcaa ggaagaacct gtgaatgtta atattcctga aaagactaca 600
gcactgaata atatggatgg caagaatgtt aaagcaaaat tggatcatgt tcaatttgca 660
gaatttaaga ttgacatgga ttctaaattt gaaaatagca acaaagattt aaaggaagaa 720
ttgtgccctg gaaatctaag tctagttgat acaaggcaac acagttcagc acattcaaat 780
caagataaaa aagacgatga cattttgtgc taaatttgca tataccatct aaaatccttt 840
tttaaaaaaa tttaatgtaa taaagattca tgaattctga aagcaagcca aggacttgct 900
cctatgtctg ttacaaaaca tagtttatgt agctttgtaa cattcctcag tgcctgtcca 960
taactgtgaa gtattaagca cttagggcca gatgcactgt aaacattgca ggtttaaaaca 1020
taaaggagtc ttttaaaaaaa aatcattttac gttggaattt taggttttag aatagagctg 1080
acattaacat atatatatat atataaatat atatatatat tttgtaatat gagccagaat 1140
tctttttcaa caattttaag cttttccata gagcttattt atatcctttt ttttcatttt 1200
aaatgtgtca gcactgtagt gtaaataagct tttaaatatc ttttttagtg gattttatact 1260
gaaatgtgag ccacttaata aagggttcata tgttcatatt aaaaaaaaaa aaaaaaaaaa 1320
aaaaaaaaaa aaa 1333

```

<210> 1022

<211> 565

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (529)

<223> n equals a,t,g, or c

<400> 1022

```

ggcagagcta aaataatgac tacctaacac ctgggtaaat atgtctccag accttttcaa 60
tgtgcatgtg tacataagct tgtatttttc ataaaaaagg aatcctgata catattttat 120
aacatacttt ttttcattta acatactgag gcatttaaaa ttttcagttt gtttttattg 180
tagcaaacat gtagtaagggt tttgggtggc tttcagtggg taaaaggacg gtatccaaag 240
gggggtttga atttccact tctgggaaca gactcctatt aaagttccag gggactatct 300
gcagtggsgt gctgaacaaa agatatcagc agtgctcatc attgtagtaa cttgggtaac 360
tcctccaaat actttgtgtg aactatcaga aatctttggg aattttttta tgtacattct 420
tgaaattctg aatgtacaaa tatggagttc catttaaaagt ttttttttta attttaagtc 480
ttgcatccat taatgtattc tcttaaactt ttatccttat atatttatna gctctgaaat 540

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664

cttggggccac taggcacttt ggggg

565

<210> 1023

<211> 525

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (479)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (522)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (524)

<223> n equals a,t,g, or c

<400> 1023

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ctggcagtct gtgcaccgga gttggctcct ttccctctta aacttggtgca agagatcgct 60
gagcgatgaa ggtagaatta tggtcctcct tgcccttgcc tttccttttt gtgatctcaa 120
agcatcctcc ctccgccctc attccatggc cccagttccc tactcccaca gctgtctgct 180
gaaactgcc aacattactca attgtttctg gggggaggaa catttttttt tgaaacaaaa 240
tagatatatg aaacagtaca cgggaattaa cacgaatatt taaggtaaaa catgaccttg 300
aagattatga aatccatctt attttggccc agaacggggg cattgggctc cttggggccat 360
aggggagctg gggaggacag ggtgaagagt tagctctaag ccctctgctt ggagatgctg 420
taaatacaga acgcaaaatc accttcgaag ttaaagacgc gaaagttctt cttttctcng 480
gcccttcttc ccttcccccc ggccatttcc ttccagtacc antng 525

```

<210> 1024

<211> 908

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (132)

<223> n equals a,t,g, or c

<400> 1024

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gtgatggact atcgcgacgt agatcaaata agtataaaat gcctcagttt tgtccttttt 60
agtgcacat aagtactggg ataccctatc ctaattaggg atcatttgaa agcttttccc 120
aaattgaggc cntgctgcct tctccccatc ccctggggtt ttaaagtgat ttcaaactgc 180
aacctagttt tagaaccact gttctgggta gttgggatac tgaaggcata ttgttaatta 240
ttctacttgt atgttttgct aattctaaga taagcatttt tccagaaacc aggatgtaga 300
atccagytgc catygacatc ttaacatttt aggaacaac tttaaaatga tatactatct 360
atctatctat ctgtagcaty ttaaaggtaa tgaaattaat gtggcagtag gtctttttaag 420

```

665

```

cttctgccta catccatatt gagtatagtt gttgtcttct aaaataatta attgattttt 480
ggtgagataa ccagattcat attttaagcc ttttgtaatg gcccctggtt acctggagtc 540
aaggttcaga agtaaaaagt tccttaaggt atcaataaca aaaatttgta ttaatagttc 600
agtcctaaag cagtgttgct gagattatgt ttcaccagca tttaacaagct gtatgtttaa 660
tgctgccata aagaggtctc tgaagccgta gggcacaccc aaggcagggc tgaraagtac 720
ctagtagtgt gcmccmcccr aaaacccatgg atggcagcag ccacatytc agcttacc 780
ttcactgccm cagtytacag cttaaagcmc ttaactacaa ggtaaaagaa aaggrccaag 840
taaatacaaaa aagtttytta ttaaaaaact tggaagccca aaaaaaaaaa aaaaaaaaaa 900
aaaaaaaaa 908

```

<210> 1025

<211> 421

<212> DNA

<213> Homo sapiens

<400> 1025

```

gggtacggta attcccaagg taagctcttg atctagatct tggggcctat agaaatattt 60
ttaagggaca tcaaagggtc ttgggaaatc tgcctagtga gggtaagcaa gatgaaagag 120
ggaaagttgt tatggttaat agtttgtagg gaactccctt ccaagaggca agcttttgtc 180
atctctatgg aatttgaggg cagttggaca atttgcaagg atattctcac ctgttcatta 240
aggtcccttt cctccagtaa gagaatggct agggctctgtg ggataatctt aagcacctac 300
tggtgctttt ttgttgtttt gcttatgcaa gtgatcattt attttttagg agtgatttgg 360
aggaagagta tgaggcaagc ttgtttttct ccagtgtaat tgatgggtcac catgcatggt 420
t 421

```

<210> 1026

<211> 887

<212> DNA

<213> Homo sapiens

<400> 1026

```

gattgcgtaa cagaactttc tgtacatcac agaaacaaca ggcaaacaat ggaggattta 60
atttccactgt ggcagtatga tcacctcacg gctacctatc ttctgcttct agccaagaag 120
gctcggggaa aaccagttcg tttaaggctt tcttcyttct cctgtggaca agccagtgtc 180
acccatttca cagacatcaa gtcaaataat tggagtcttg aagatgtgac cgcaagtgat 240
aaaaattatg tggcgggatt aatagactat gattggtgtg aagatgattt atcaacaggt 300
gctgctactc cccgaacatc acagtttacc aagtactgga cagaatcaaa tgggggtggaa 360
tctaaatcat taactccagc cttatgcaga acacctgcaa ataaattaaa gaacaaagaa 420
aatgtatata ctctaagtc tgctgtaaag aatgaagagt actttatgtt tcctgagcca 480
aagactccag ttaataagaa ccagcataag agagaaatac tcaactacgc aaatcgttac 540
actacaccct caaaagctag aaaccagtgc ctgaaagaaa ctccaattaa aataccagta 600
aattcaacag gaacagacaa gttaatgaca ggtgtcatta gccctgagag gcggtgcsct 660
cagtggattt ggatctcaac caagcacata tggaggagac tccaaaaaga aaggaggcca 720
aagtgttttg gagccttgaa agggggttgg ataaggttat cactgtgctc accaggagca 780
aaaggaaggg ttctgccaga gacgggcccc gaagactaaa gcttcactat aatgtgacta 840
caactwgrtt agtggattcc cggttcaact gtttggtatg aattaat 887

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<210> 1027

<211> 461

<212> DNA

<213> Homo sapiens

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MISSING AT THE TIME OF PUBLICATION

683

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (458)

<223> n equals a,t,g, or c

<400> 1053

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tcaagagaga tgagctcagt tcctaggtca tgccccagtc tgtagtgaca tgctcctgta 120
tgtaacggaa atggccatgt ctacaggagg taaaatcaca ccaacctggg aagaggaaaa 180
gccagtggag ggcagtagag caggggcagc cctctccact gaargcagtt gtttgccctga 240
ctccatggca tttgtgtcca ttagagtcta raagargtgt tggcaaaactt tctacaaagg 300
gccaratakt aaatatTTTT ggcttttgaa rctaratggg ctctgtcata accactcmac 360
tccgccattg tagtgcaaaa gcaaccatag accatatgta tacnaatgga tatgggcctg 420
gtccaataaa aactttttatt tacaaaaagc aaggcnantg ggccca 466

```

<210> 1054

<211> 557

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (86)

<223> n equals a,t,g, or c

<400> 1054

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ttcggntaaa aaaaaaaaaa aggactgtgt aagggttactt aactcctctg gggcttgtcc 60
atcttatctg caaaaatggg gatccnctag cgtgtatctc gctgagcggg acagatgaac 120
tatgtaaagc atttggccca atgcctggca ctgctaagca tgcaataaat ggaagttact 180
atcataatgt gtaacacata taattatgac aattatatatt ccaagatatt ctgggatctt 240
tacagtttca taattttgct ctttttacta tacaacactc cttttattga aacaaaataca 300
gatttttgag tcagacagac ctagtctgga tttgaattcc agctctcctt cttaccagcc 360
tggggccatg gagaatgttg tccatttccc tgagcctcag tgttcttctc tgtaaaatgt 420
ggatgatacc tgactcccag gcattttgcc aggattacat gggattccta cacagtgcaa 480
tgtctagtga taatataaat actaaaagca acttggttaa tgtataaata aatgtgattt 540
atttttgctc ctttaaa 557

```

<210> 1055

<211> 2872

<212> DNA

<213> Homo sapiens

<400> 1055

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catgcctgat ggagccactt tggctattgg atcttcccgg gggaaaatat atcaatatga 60

```

684

```

ttaaagaatg ttgaaatcac cagttaagac catcagtgtc cacaagacat ctgtgcagtg 120
tatarcattt cagtactcca ctgttcttac taagtcaagt ttaaataaag gctgttcaaa 180
taagcccaca acagtgaaca aacgaatgtt taatgtgaat gctgctagtg gaggagtcca 240
gaattccgga attgtcagag aagcacctgc caggtccatt gccacagttc taccacaacc 300
tatgacatca gctatgggga aaggaacagt tgctgttcaa gaaaaagcag gtttgctctg 360
aagcataaac acagacactt tatctaagga aacagacagt ggaaaaaatc aggattttctc 420
cagctttgat gatactggga aaagtagttt argtgacatg ttctcaccta tcagagatga 480
tgctgtagtt aacaagggaa gtgatgagtc cataggcaaa ggagatggct ttgactttct 540
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ttgacttctg agatgaaagt atttactaaa attaaaaaaa aaaaaacaaa aaacaaacct 2400
ttagctcact aactttatgg gtttctgaag tgatggaaat ttttaaggat atatttaata 2460
agcataaact tactaataat tacttccaaa aataaaaaaca ggaatattac ttttaccag 2520
tgtggtttat agcatacatt tgtactgaag catataggga tgttaatgtg atcttttct 2580
gacagattat gaaagcatta tgacttgtaa caagtttcct tgtatatcac taacagggtt 2640
agaagacata aatattagtg tgttttgctt acatgggtga tttaaatcta ttaatatatt 2700
cctgttgctt ttttaaaaaa ataaatacac ataatgtata ttaaaagagg tgggatgaaa 2760
taatttttagt aattatgtgt acagatgaaa catttttgtc atggaattta aaagctaagt 2820
aagtataaaa aataaaatgt tatatgcaaa aaataaaaaa aaaaaaaaaa aa 2872

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<210> 1056

<211> 552

<212> DNA

685

<213> Homo sapiens

<400> 1056

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ttaggggaac gtggcaccga tctcatcttc accgtcgatc agtgggttctc tgacttggtc 180
cagtggccgc acaccagcta gtgaagaaaa ccacagactc caactgcact gtgtacgstc 240
tggtgtcctc atttccaaaa aaaaaaaaaa aaaatctcca agatagagtt taagaaatct 300
catttgagtt gccctgctaa tatttgcagc tcgctgggtg gtgccgtgga ggccagtact 360
caccgtcagg ctgtggcagg tacagtgaag ggaaaaactc catgagagaa cgggtggaaag 420
ttcacctgag agtgaaacgc atgccagtta gagtggctga aaaatagcat ggacaacacc 480
agctagtga gaaaaccaca gactccaact gcactgtgta cgctctggtg tcttcatttc 540
caaaaaaaaa aa                                     552

```

<210> 1057

<211> 871

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (754)

<223> n equals a,t,g, or c

<400> 1057

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actaaatgag acatttttgt cagattcaga aaaagaaaaa ttaacattaa tgtttgaaat 120
acagggctct aaggaacagt gtgaaaacct acagcaagaa aagcaagaag caattttaaa 180
ttatgagagt ttacgagaga ttatggaaat ttacaaaca gaactggggg aatctgctgg 240
aaaaataagt caagagttcg aatcaatgaa gcaacagcaa gcatctgatg ttcatgaact 300
gcagcagaag ctcaagaactg cttttactga aaaagatgcc cttctcgaaa ctgtgaatcg 360
cctccagga gaaaatgaaa agttactatc tcaacaagaa ttggtaccag aacttgaaaa 420
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taccatgtta aaagaattag aaggaaagat aaattctctt actgaggaaa aagatgattt 540
tataaataaa ctgaaaaatt cccatgaaga aatggataat ttccataaga aatgtgaaag 600
ggaagaaaga ttgattcttg aacttgggaa gaaagtagag caaacaatcc agtacaaacag 660
tgaactagaa caaaaggtaa atgaattaac aggaggacta gaggagactt taaaagaaaa 720
ggatcaaaat gaccaaaaac tagaaaaact tatnggttca aatgaaagtt ctctctgaag 780
acaaagaagt attgtcagct gaagtgaagt ctctttatga ggaaaaaatw aactcagttc 840
agaaaaaaaa cgggttgagt agggatttgg a                                     871

```

<210> 1058

<211> 544

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (365)

<223> n equals a,t,g, or c

686

<220>
 <221> misc feature
 <222> (395)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (408)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (434)
 <223> n equals a,t,g, or c

<400> 1058
 gctcgaactc ttgagttcaa gcaatccacc tgccctccacc tcccaaagtg ctggggactac 60
 aggcgtgaat cagtgcacct ggccctgatag tcacctttga agagttgtga tataccattt 120
 tactagataa atggtaatat gccattataa tgcaactcaa tgtagatgag tctggaagag 180
 gctgggctca aatgggtccca catgatccag ggatagaccc agagtttcca gaggaatggg 240
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 agataatcga cagactgtag ctatactctg tgggtgattgt ctggagttac atgttgctga 360
 ttganggtga attcatatgc tttagaaact agaancgcaa gtgttcangt tgctaattctg 420
 ctttggaat gaanggacca gtgaagacct tcaactcgcaa tgaargtgw cttttctatg 480
 caattaggct cttggctacc tgccagaaaa accagatgtt ttcctactga agcaatttca 540
 aaag 544

<210> 1059
 <211> 597
 <212> DNA
 <213> Homo sapiens

<400> 1059
 tctgtgccat gagaaactga gcctactaga agatttcaaa gacttcagag attcctgcag 60
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 gcatcaccaa gatgacacca agtacagaac caaaagtttc aaaggtgaca gaacctttct 180
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 aataacatct ctattcttac agcaatttgg cccagattat ctaacagaca tacctgcagc 480
 tttggctctt tgggtattgcc aaacattgac aaaagtgaca atactgttgg tccttgtgaa 540
 tggtaaacca atccaaataa tatcagatca tgaatgatgt gcagctaatt tatttgc 597

<210> 1060
 <211> 425
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature

687

<222> (96)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (334)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (344)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (380)
 <223> n equals a,t,g, or c

<400> 1060
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 ggatgtgtct gcagttcagg cgaagttggg agccctggaa ctgaaccaga gggatgctgc 240
 agctgaaaact gagctcaggg tgcacccacc ctgccagcgg cactgcccag agccgcgagt 300
 gcacccgaag aaaacaaaagc caccagcaaa gctncccaag gtanccaactc aaaaaccccc 360
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 tggga 425

<210> 1061
 <211> 593
 <212> DNA
 <213> Homo sapiens

<400> 1061
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 ccaccaatth gattacgaaa aatcttttcgg gcttccaggg agctttggag cctggaaatt 120
 gcagatgagg gatgggggccc tgcactgttt cgcggctggg gagagggagc tcatccgaag 180
 tcttccgaca gaggtgggcg tcatgcccga cgtcgagcgg agtgggtctc ctcgagccca 240
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 gcttcacgat ctctaccgc ggcggggccgc gtacctcttg gatggcctct tagacgttct 360
 ctgagtcgct gcgcgacagg ggcagcaggc acacccagga gcccgctacg ctgcaggcct 420
 tgaagctgcc gctgcttccg aggttgccgg cgggagggcg gacgacggcg cgcgtcagggt 480
 cgtccaggga ctgcgcgggc cgcacgggcg ccgtggggccg cagggtacagg caggcgggca 540
 ggccggtgta ctgcaagggg tgctccacca gtacgtacac gtccccctcc aca 593

<210> 1062
 <211> 332
 <212> DNA
 <213> Homo sapiens

<400> 1062

688

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gccaaaaagc tattttttgaa tgtgatctgt gtgaaaataa ttccctatgg tatgacatat 120
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caatgtttac atttagcgtt tggatgtctg gcaggacatt aaaaaattgg cagagctgtc 240
ccacacatgc agaacatcta tagcgttctt gcctcctcaa aggtaatctt catgtgacaa 300
caacaacaac aaaaaaaaaa aaaaaaaaaa tt 332

```

<210> 1063

<211> 2340

<212> DNA

<213> Homo sapiens

<400> 1063

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aggcgctgcg gagacgcgta gaggagcgcg cccccgggcc gmtgccgmcc ctggcccgtg 60
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cgcgctgacc ggccctccag acgcctcccg gtacccgga cccagccccg gccgctcgcc 180
cgcagccccgc cggccgcaca cgtccccgga gccgggccta gggcgggcgg cagggcggct 240
cggcgcgagtc aggctgggct ctgtagcgtc cccatggccg cggcgggctg gccggacggc 300
tccggccagg agaagtaccg gctcgtggtg gtcggcgggg gcggcggtgg caagtcggcg 360
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gcaggacaag aagagtttgg agccatgaga gaacagtata tgaggactgg cgaaggcttc 540
ctgttggctt tttcagtcac agatagaggc agttttgaag aaatctataa gtttcaaaga 600
cagattctca gagtaaagga tcgtgatgag ttcccaatga ttttaattgg taataaagca 660
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tgtacttgat tttttaattt aactcttttt cacagccacg ctaagggtaa aaaggaaata 1620
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atagtatgtt cctgattttg agatgctaag tggatttgca cagttgtcac tttatcaagt 2220
gtgtacaaca gtcccatgaa gtttatagag catacccttg tatagcttca ggtgctagaa 2280

```

689

ttaaaaattga tctgttatca caaaaaaaaa aaaaaaaaaa aaaggctctt taattaggcg 2340

<210> 1064

<211> 1647

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (262)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1609)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1629)

<223> n equals a,t,g, or c

<400> 1064

```

gcgggcgctg aacgggacgt accaccacca ccaccaccac caccaccacc atccgagccc 60
ctactcgccc tacgtggggg cgccactgac gcctgcctgg cccgcccggac ccttcgagac 120
cccggtgctg cacagcctgc agagccgcgc cggagccccg ctcccgggtgc cccgggggtcc 180
cagtgcagac ctgctggagg acctgtccga gagccgcgag tgcgtgaact gcgggtccat 240
ccagacgccg ctgtggcgcg gnacggcacc ggccactacc tgtgcaacgc ctgcggggtc 300
tacagcaaga tgaacggcct cagccggccc ctcatcaagc cgcagaagcg cgtgccttca 360
tcacggcggc ttggattgtc ctgtgccaac tgtcacacca caactaccac cttatggcgc 420
agaaacgccg aggggtgaacc cgtgtgcaat gcttgtggac tctacatgaa actccatggg 480
gtgcccagac cacttgctat gaaaaaagag ggaattcaaa ccaggaaacg aaaacctaag 540
aacataaata aatcaaagac ttgctctggt aatagcaata attccattcc catgactcca 600
acttccacct cttctaactc agatgattgc agcaaaaata cttccccccac aacacaacct 660
acagcctcag gggcggggtgc cccggtgatg actggtgcgg gagagagcac caatcccag 720
aacagcgagc tcaagtattc gggtaagat gggctctaca taggcgtcag tctcgccctc 780
ccggccgaag tcacgtcctc cgtgcgaccg gattcctggg gcgccctggc cctggcctga 840
gccacgccg ccaggaggca gggagggtc cgcgcggggc ctactccac tcgtgtctgc 900
ttttgtgcag crgtccagac agtggcgact gcgctgacag aacgtgattc tcgtgccttt 960
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aagggccagt gcaactgggc gcttgggcca ctccagccag cccgcctccg gggcggaacc 1080
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ttgcgttgca gcaatcagtg ttaaatcatt tgcataagat ttaacagcat tttttataat 1560
gaatgtaaac attttaactt aagggtactt aaataattta aaagaaaang ttaacttaga 1620
cattcttngn cttctttttac aactaca
1647

```

690

<210> 1065

<211> 252

<212> DNA

<213> Homo sapiens

<400> 1065

```

gaggaattgg aagcaagggg tctgagatgg ttgccatggg tatttccttc tagattgtgt 60
tactgcgtaga gaccattttc ccactgtggg catgttttcc ttgagtcaat tttccaggta 120
ctctatatattc agcactctcc tccttccttt tctttaattc catttttagcc acacacaggg 180
gaatgggaaa gggcctgatt aaatcaacta tttttttttt tttaaaattt taatcttttg 240
ggggcccagg aa                                     252

```

<210> 1066

<211> 1095

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (69)

<223> n equals a,t,g, or c

<400> 1066

```

tcccccgcg sttgcccgat tcattaatcc agytgccacg acagggtttcc cgactgaaac 60
cggccagtna gcscaacgca attaatgtga gtagactcac tcattaggca ccccaggctt 120
tacactttat gcttccggct cgtatgttgt gtgaaattgt gascggatac caatttcaca 180
caggaamcag ctatgacat gattacgcc agctctaata cgactcacta taggaaaagct 240
ggtacgcctg caggtaccgg tccggaattc ccgggtcgac ccacgcgtcc gcaaaatttc 300
ttcagtttat tatctgtaaa ttgtacagtt ttctttttga aagttttaat attgtcttcc 360
tttttaataa cttattttat acatattgtg cagatgtaaa tcttgtaatt aatgggtcaaa 420
ctgtataaag ggattggtag tcaaaacatg tacaaagaaa tacctgtaaa actgttttgt 480
ctcatgtttt attggaccaa agttgtggtt tgtatggagt gtagtagtag tgtgtacagg 540
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tgcaaagatg tggcttagtt gtattgcatg cttcctataa tttaaactct cataattgat 660
gcctgcagta gtgtaaggca tttcatacta gtctcctcta gtagacctgt gacttactgt 720
gttggacata ttatttagac ttagtcatac aaagaaactt agctcttttt tcatctcaca 780
gtaaagccta tttccccagg aaaaaataa atgcctttga atgaaaattc tgaaattgta 840
aatgtctatt ttaatatcca cctatgaaag aatctgtgaa tatatgtaaa tacgtttaat 900
aaatttttatt ggtcatgtta aatcattgta aaactttttt acattgctta atgttttaag 960
cttaatagcc tttgcacttt taaaataaaa accaagtatg caaatcaaag atatttggtta 1020
gtcaaaataa gtaaaagaaa tataggaata ttccagtcaa aaaaaaaaaa aaaaaaaaaa 1080
aaaaagggcg gccgc                                     1095

```

<210> 1067

<211> 661

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

691

<222> (619)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (657)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (658)

<223> n equals a,t,g, or c

<400> 1067

```

cagccctaca ggcaacttga acggagagcg ctttgatcac tcaccagccc gggaaggcaa 60
gccccagtca ggcggaaggt agctggctgc ggggcggggc gactggcggg cggcggggagg 120
cgccaaccgg cacagacgac tcccagctgg ccgagggcgg gaagggggca ggcaggggaag 180
cggcccgccc ttcgtcctgc cccttcgccc taytctgtca cctccgytgg aaggagtgga 240
acccakactt gctggtctga tccatgcaca aggcgggggt gctaggcctc tgtgcccggg 300
cttgggaattc ggtgcggatg gccagctccg ggatgacccg ccgggacccg ctcgcaaata 360
aggtggccct ggtaacggcc tccaccgacg ggatcggctt cgccatcgcc cggcgtttgg 420
cccaggacgg ggcccatgtg gtcgtcagca gccggaagca gcagaatgtg gaccaggcgg 480
tggccacgct gcagggggag gggctgagcg tgacggggcac gtgtgccatg tggggaaaggc 540
ggaggaccgg gagcggctgg tggccacggt garcttgca kggaaatgggc acagagccar 600
gaagtggaaa aggagccanc tgamctkctt cctgctttcc taagacagca acacatnnga 660
a 661

```

<210> 1068

<211> 164

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (146)

<223> n equals a,t,g, or c

<400> 1068

```

attccttata catgttaact aactctaagg ggaaagagat agatcataaa ttacatgtta 60
acgttgaggg gaaattgata gatcataaat taaaatataa tttaatatgt tatatatattc 120
tattgattta tataacctatg aaatanTTTT tatattgaaa ggta 164

```

<210> 1069

<211> 1004

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

692

<220>

<221> misc feature

<222> (40)

<223> n equals a,t,g, or c

<400> 1069

```

acattaacgg gaagcttcct atagggattg cgggtangen tcccaggtac cgggtccgga 60
ttcccgggtc gacccacgcg tccgagttat ttgagaattt tggtgaaaaa tatttagctg 120
agggcagtat agaacttata aaccaatata ttgatatttt taaaacattt ttacatataa 180
gtaaactgcc atctttgagc ataactacat ttaaaaataa agctgcataat ttttaaataca 240
agtgtttaac aagaatttat attttttatt ttttaaaatt aaaaatratt tatatttcct 300
ctggtgcatg aggattctca tctgtgctta taatggttag agattttatt tgtgtggaat 360
gaartgaggc ttgtagtcac ggttctagt tttcagtttg ccaagtctgt ttactgcagt 420
gaaattcatc aaatgtttca gtgtgstytc ctgtagycta tcattttactg gctatttttt 480
tatgtacacc tttaggattt tctgcctact ctatccagtt gtccaaatga taccctacat 540
tttacaaaatg ccttttcagt ttctattttt tttttccatt aaattgccct catgtcctaa 600
tgtgcagttt gtaagtgtgt gtgtgtgtgt ctgtgtgtgt gtgaatttga ttttcaagag 660
tgctagactt ccaatttgag agattaaata atttaattca ggcaaacatt tttcattgga 720
atttcacagt tcattgtaat gaaaatgtta atcctggatg acctttgaca tacagtaatg 780
aatcttgatg attaatgaat ttgttagtag catcttgatg tgtgttttaa tgagttattt 840
tcaaagttgt gcattaaacc aaagttggca tactggaagt gtttatatca agttccattt 900
ggctactgat ggacaaaaaa tagaaatgcc ttctatgga gagtattttt cctttaaaaa 960
attaanaagg ttaattattt tgactaaaaa aaaaaaaaaa aaaa 1004

```

<210> 1070

<211> 1306

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1289)

<223> n equals a,t,g, or c

<400> 1070

```

accgtccgga ttcccgggtc gacccacgcg tccgtgaggt tacagattat gccattgcca 60
ggcgcatagt agatttgcat tcaagaattg aggaatcaat tgatcgtgtc tattccctcg 120
atgatatcag aagatatctt ctctttgcaa gacagtttaa acccaagatt tccaaagagt 180
cagaggactt cattgtggag caatataaac atctccgcca gagagatggg tctggagtga 240
ccaagtcttc atggaggatt acagtgcgac agcttgagag catgattcgt ctctctgaag 300
ctatggctcg gatgcactgc tgtgatgagg tccaacctaa acatgtgaag gaagctttcc 360
ggttactgaa taaatcaatc atccgtgtgg aaacacctga tgtcaatcta gatcaagagg 420
aagagatcca gatggaggta gatgagggtg ctggtggcat caatggatcat gctgacagcc 480
ctgctcctgt gaacgggata aatggctaca atgaagacat aaatcaagag tctgctccca 540
aagcctcctt aaggctgggc ttctctgagt actgccgaat ctctaacctt attgtgcttc 600
acctcagaaa ggtggaagaa gaagaggacg agtcagcatt aaagaggagc gagcttggtta 660
actggtactt gaaggaaatc gaatcagaga tagactctga agaagaactt ataaataaaa 720
aaagaatcat agagaaagtt attcatcgac tcacacacta tgatcatggt ctaattgagc 780
tcacccaggc tggattgaaa ggctccacag agggaagtga gagctatgaa gaagatccct 840
acttggtagt taaccctaac tacttgctcg aagattgaga tagtgaaagt aactgaccag 900

```

693

```

agctgaggaa ctgtggcaca gcacctcgtg gcctggagcc tggctggagc tctgctaggg 960
acagaagtgt ttctggaagt gatgcttcca ggatttggtt tcagaaacaa gaattgagtt 1020
gatggctcta tgtgtcacat tcatcacagg ttccatacca acacaggctt cagcacttcc 1080
tttgggtgtgt ttctgtgcc agtgaagtig gaaccaaata atgtgtagtc tctataacca 1140
atacctttgt ttccatgtgt aagaaaaggc ccattacttt taaggatatgt gctgtcctat 1200
tgagcaaata actttttttc aattgccagc tactgctttt attcatcaaa ataaaaataac 1260
ttgttctgaa aaaaaaaaaa aaaaaaana aaamaaaaa aaaaaa 1306

```

<210> 1071

<211> 150

<212> DNA

<213> Homo sapiens

<400> 1071

```

gacttggttct agatcgcgag cggccgccct tttaactggt ttaggtgtgt gtgtccagag 60
tgagcaagga ttatgttttt ggattgtcaa agaggatgct tagtcttaaa ataaaaataa 120
atttaaaaat catcttataa aaaaaaaaaa 150

```

<210> 1072

<211> 386

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (380)

<223> n equals a,t,g, or c

<400> 1072

```

acgcctgcag gnnaccggtc cggnaattcc cgggtcgcagg ggccactctc ctgtctttac 60
tcctttttccc ttctctattc ttccaccaga agccctcatt tgaccagtga actcctaggc 120
cctcttgacc cgcacattag ctgggcgcatt tccttggttct gctaattcct aattctgctt 180
aaaatgtatt tggatttctg tttttgaaca cttatgatgc caggcactgt aatgcttgaa 240
acccgatctt tccctagaga atgtaacata cgtttttatt catttaatca cttcattatg 300
ccgggggttaa ttatgtttat ttataaattg gtaataaagg ccacatttat ttttgtaact 360
gtttaaaraa maaaaaaaaa aaaaaa 386

```

694

<210> 1073
 <211> 623
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (2)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (23)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (27)
 <223> n equals a,t,g, or c

<400> 1073
 nntgagaaaa acccttgatg tgntganaac catcatgggg accaggatag aaggcttctt 60
 ccactcaaa gcttttctcc ctggagggtg ggcactgctg ggccatgcac ttcaaagcag 120
 tgttcctcag caggaaagcg gaggtcacca cttaccggcc tcctccacct tctcggcttc 180
 tcttttctcc atgaaccag gtcgtccagc aggtacttcc aagttcccag gtctgtctgc 240
 ctaagagcct tttgaggaga ccgtcctgga gccccatcag tgcccagatc ctgggggtacc 300
 gaccattgct gtctagcagt gggggatcct gtgggtgggaa tgggggtgggc ttctcatcca 360
 tgttgcttct gggaagagag gggtgccttt ctgggctagg gaggtggctg gagcttctgc 420
 cctgaccctc cgctagaaac cagttatata cattgccaca gcaataactgt gtaacaaatc 480
 cgccaacact cgggtggcctg caacagtcag cactgatcta gggcaggagt cagcagtcctg 540
 ggcagggtga ttcttctggt ctaggctgkg cttgtttgtt tagggccatg ggttgtaag 600
 tccccagggg atgctccatg gtg 623

<210> 1074
 <211> 629
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (450)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature

695

<222> (609)

<223> n equals a,t,g, or c

<400> 1074

```

cacttttatt aatttgcattg tcctttttaat atttattttat tcaaataacta ccgtatggcc 60
caccataaatt acccccatac tccttacact attcctcatc acccaactaa aaatatttaa 120
cacaaactac cacctacctc cctcaccaaa gcccataaaa ataaaaaatt ataacaaacc 180
ctgagaacca aaatgaacga aaatctgttc gcttcattca ttgccccac aatcctaggc 240
ctacccgccg cagtactgat cattctatctt cccctctat tgatccccac ctccaaatat 300
ctcatcaaca accgactaat caccacccaa caatgactaa tcaaactaac ctcaaaacaa 360
atgataacca tacacaacac taaaggacga actgatctct tataactagta tccttaatca 420
tttttattgg cacaaactaac ctctcggan tcctgcctca ctcatattaca ccaaccaccc 480
aactatctat waacctarcc wtgggcatcc ccttatgarc sggggcagtg awtatagstt 540
tcgctcttaa aattaaaaaat gccctagccc cttcttwaca aaagggatat tgggttttgg 600
aatacactnt tttctttgat tttttttaa 629

```

<210> 1075

<211> 556

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (338)

<223> n equals a,t,g, or c

<400> 1075

```

cgttgcccaa cccggtcccc gccccagac acgcccggct ctccggggcac cacagccatg 60
tgctcgtagt cgtcaggcgc taccggcgcc cgggcgctg tggagaatga ggaggacctg 120
ccagaactgt cggacagcgg ggacgaggcc gcctgggagg atgaggacga tgcagatctc 180
ccccacggca agcagcagac cccctgcctg ttctgtaaca ggttattcac atctgctgaa 240
gaaacatttt cacactgtaa gtctgagcat cagtttaata ttgacagcat ggttcataaa 300
catggacttg aatttttatgg atacattaag ctaataantt ttatttagact taagaatcct 360
acagttgagt acatgaattc catatacaac ccagtgcctt gggagaaaaga agagtatttg 420
aagccagtat tagaagatga ccttttactt caatttgatg tagaagatct ttatgaaccg 480
gtgtcagtac cttctcata ccccaatgga ctcagtgaat atacatctgt tgttgaaaaa 540
ttgaaacata tggaag 556

```

<210> 1076

<211> 420

<212> DNA

<213> Homo sapiens

<400> 1076

```

aagccggaag ttgggggatg acagcagcat catgatgctg gctgtggagt gagcatgggg 60
ctggcgctga ggccactctg cctcccatgg gtgggcccgc ttagctccyc ctctgcaaaa 120
tagggagctg ttgcaggaca ttccagagct actataagga ctgaaggagg ccccggggaa 180
aagagctctt gatataattaa ggactgctt agtagtgact atgcttactt tgcgagcagg 240
gaaaccgagg cctgggtagg acagaggggg gcacatgtgt ttactgccct ctccgcccc 300
gactttgggt ccacagcct ccaccctgt gcgcccgtca agaatttggc ttccacgttc 360
tgctccccgg accctcccag cctaacctgt ggatcctgcc acacaaagat gggcttacct 420

```

696

<210> 1077

<211> 736

<212> DNA

<213> Homo sapiens

<400> 1077

```
gattcagtgt ctatttcctg aggaacccaa cttataacac gtagaataaa ctggccaaaag 60
ttcttaattt tccaatttgt tgcaccagcc ccacgtgacc accaaaagct tttctgggtt 120
tccctttccc tcaggagaga ccctcttcac agaccaagct tgatccttat tagtccatgt 180
ccagaatcag taaatgtccc tagaaaataa aatggccact tacctcagga ggactcctcc 240
ctctctggaa ttcccattca cctagtcctt attgctttca tagctctcac atatctttta 300
atatgatctt tataatttty ccatcttttt ctagttgttg caggcaaagt tttaggctgc 360
catgacctac tatatcctat ttagaagtgg aagtctctag agagattttc aaaattacag 420
atgtgtggat attagctttt ctccctaattt aattgaattg tggtgagaga aggtgttctg 480
tattattcaa atagcttaaa atttgctgaa atgggtttat aatcaaatat atgggtcaaat 540
ttaatagttc atgtactctt ataaatatgt attctcccat tgttggatgc aatgcccttt 600
gtatgttcat gggatcaagt ttgttgactg ttttgtgtaa atctatatgc aaaatcttga 660
tttttgtcta cttgatctgc ttctgaaaga ggaacaataa aacttcccac tgctacggta 720
aaaaaaaaa aaaaaa 736
```

<210> 1078

<211> 899

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<400> 1078

```
agggntggaa cgcccgagcgt taccgggtccg gaattcccgg gtcgacccac gcgtccgccc 60
acgcgttcgc tggtcgggcta tccattcatt ctccatacag caactagagt cattctttta 120
aaattgcgga cctgatcctt ccatctccca gctgaacgct tttcatttgc ttctgttct 180
catgagtatg ccaaaatgta ttctgggcta ggaggccctg aggaatttgg tccttccttc 240
ctccccctc gttttctgtg cttegccctc actggcttgc ctttcttttc cttaaataca 300
tcatgttctc tcctatttta gatccttttc cccgaaggta tggaaacatt atttctgtaa 360
gcttattctt ctatatagat gggaagtttt taaatcagat aaggttctaa gggcatgtgg 420
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tgattcacat ttattagttc aaccagttac atacctgtag caagagacca gtttatttgg 840
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<210> 1079

<211> 2215

<212> DNA

697

<213> Homo sapiens

<400> 1079

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gagatgcaga tcctgaagtg ctgttatcgg aaaccatcag acatttccgt ctgtactctc 360
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<210> 1080

<211> 599

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

698

<220>
 <221> misc feature
 <222> (30)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (374)
 <223> n equals a,t,g, or c

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 attgggcagt tggtagatgt gaagggttta gagaagacca aagatgggct ggaggtggct 180
 gtcctgcccc acaacatccg tgctttcctc cccacatctc atctgtcggg ccacgttgcc 240
 aacggcccat tgttacatca ttggctccag gcagggtgaca tccttcaccg agtcctgtgt 300
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 gaagggtggc aggntcccaa gaactttctc gaaatccatc ctggaatgct gctcattggg 420
 tttgtgaaga gcatcaagga ctatggcggtg ttcattccagt tccccctcagg tcttagcgga 480
 ctggccccaa aagctatcat gagtgacaaa tttgtgacct ccacaagtga ccactttgtt 540
 gagggccaga cagtagcggc aaagggtgacc aatgtggatg aggagaagca gcggatgct 599

<210> 1081
 <211> 642
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (618)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (628)
 <223> n equals a,t,g, or c

<400> 1081
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 tatacatctg cttatttcga taagggtgcac ctaagtctct tcatctcatc agtattcttt 180
 tgctatcaaa ggcagttgat cagttttgtt cctcaatatt ttttttgcaa atatctaccg 240
 aagttttttc aaatttttatg taaaatgcaa gtcattgtag agatgccagt ctatgccttt 300
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 gtgcatttat ttttcatgaa aaaaggtaga atgatttgtt ctgacataaa gtaaatagtg 480
 ttgatgcatt agaaattgtg tgtcttgatt atgatttctg tactttttgc attagaagta 540
 taatggactt gtatttttaa atagttgaaa ctagcactgt gatcatatta aataatgcat 600
 tycycagttt gggacctnca gatagggntt ccattgttga aa 642

<210> 1082

699

<211> 570

<212> DNA

<213> Homo sapiens

<400> 1082

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gtgttctgag taacagtcag tgtataaaaag gggattgcag aaaaaaatga gggcttgctt 60
tactcaacag aaaatatggc ccttcctgaa tgacactagg agagtcattt tatctcatatc 120
attcccttca tttcgttggt ggacatttgt tgaaaccggc actcaatggt caaaccgtct 180
gtgccctcca gttgctgaca gtcctgcagg aagatggaca agaggcccag tgctgacagt 240
cacacgactc tcactacttg aatgagggga ctgtgggtgc aactagaaaa tatgttgatt 300
cttagccatt cccaccttgc ctctccgttc agaaccccag ctgcgagctg tttgtttccc 360
tgacctgaaa tgatgtttta ggcagggttc ttaatttctc aggtctgtct cagataataa 420
aaagctcttt gtatgagcct cagaactgtc tcttcagtga atgaaattac cagtcattat 480
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amwttatyt c ttggctggga aaaaaaaaaa 570
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<210> 1083

<211> 675

<212> DNA

<213> Homo sapiens

<400> 1083

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cccttccagt catgaaactt catttgtttt atccatatcc ctgaggactg tgtagacttt 60
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aactttttta ttccctttgat cttataagtt aaagctgtaa caactgaaat tgcattggatc 180
aagtaagcat agttttatcc agggagaaaa ataaaaggaa gccatagaat tgctctggtc 240
aaaaccaagc acaccatagc cttaactgaa tatttaggaa atctgcctaa tctgcttata 300
tttgggtgtt gttttttgac tgttgggctt tgggaagatg ttatttatga ccaatatctg 360
ccagtaacgc tgtttatctc acttgctttg aaagccaatg ggggaaaaaa atccatgaaa 420
aaaaaaagat tgataaagta gatgattttg tttgtatccc taccatctc ctggcagccc 480
tactgagtga aattgggata catttggctg tcagaaatta taccgagtct actgggtata 540
acatgtctca cttggaaagc tagtactttt aaatgggtgc caaagggtcaa ctgtaatgag 600
ataattatcc ctgcctgtgt ccatgtcaga ctttgagctg atcctgaata ataaagcctt 660
ttaccttaaa aaaaa 675
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<210> 1084

<211> 628

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (535)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (579)

<223> n equals a,t,g, or c

<220>

700

<221> misc feature
 <222> (620)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (626)
 <223> n equals a,t,g, or c

<400> 1084
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 cgcattggaca tcctggatgt aagtgcctcc tgggctcag tccccctggc ctggcccaag 120
 ctgccctaag gtggggctgc caaacctgg gtctccttgt tgctgggccc caagggctcg 180
 tgcaggcctg tccactgcct tcgtgagtgt gtgacccggc aggactcagc agtggggggag 240
 tcagggctcc cggggcagag agttttgttt gtttaaaata acagctttac tgatataatt 300
 cacacgccat aaaattcacc gcttttaggt aaaatgtgtg ctgcgaggt gaggggaatat 360
 tatttagcaa wraaaaaaaaa aaagggcggc cgctctagag gatccaagct tacgtacgcg 420
 tgcattgcgc gtcattagct ttctatagtg tcacctaaat tcaattcact ggccgtcgtt 480
 ttacaacgtc gtgactggga aaacctggc gttacccaac ttaatcgct tgcancacat 540
 ccccccttcg ccagctggcg taatagcgaa gagggccgna ccgatcgccc ttcccaacag 600
 ttgcgcaagc ctgaatggcn aatggnac 628

<210> 1085
 <211> 1356
 <212> DNA
 <213> Homo sapiens

<400> 1085
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 acgycagaaa tacttagcac agytactwaa yagtgtmga ttaccattgy tgagtgttaa 120
 gttttctact agactatatg aagcaaatca tcttattcgt gatgatcgca cttgtaaaaca 180
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 tggactcttt gcctgttttg atagtgtgga gatgtacttt cctcagaatg actcttggat 360
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 agtatatggt ataggtggta ttgcaactaa tgtgcgtcct ggcgctacta tcagaaaaaca 480
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 atggcaacct gtggcaccaa tgacgacaac aagaagttgt tttgctgcag cggatttga 720
 tggaaatgata tatgccattg gtgggtatgg tcctgcccac atgaacagtg tggagcgtta 780
 tgatccaagt aaggactcct gggagatggg tgcattccatg gcagataaaa ggattcactt 840
 tggcgtgggt gtcattgctag gctttatttt tgtgggtggg ggacataatg gactctcaca 900
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 gaaagaacct agaacaggag ttggtgctgc tgtaatcgat aactaccttt atgtcgtcgg 1020
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 gtggctggat tcagctggca tgatatactg tcgctgcaac tttgggttaa ctgcactttg 1140
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 tggccagtt ttctgaaacc cacaagctgc attgctttct ttttaacttg aagtagcatg 1260
 aaggctcaaa agttttgttg ggtactttta attgagaagt agtttttggt gctcttgatt 1320
 acacagtaaa tcaataatca aaaaaaaaaa aaaaaa 1356

701

<210> 1086
<211> 703
<212> DNA
<213> Homo sapiens

<400> 1086
gcaaacattg gacatctctg acatattttt tctcgttttc agcttttcgg atgatccctt 60
atcccttggg aaagggggcac ctattttatc cttacccaat ctgtacagaa acagcagacc 120
gagagctgct tccatctttc catgaagtct cagtttacct aaagaaggag cttcccttct 180
ttattctctt tactgctgga ttatgttcct tcacagccat gctggccctc ctgacacatc 240
agttcccgga acttatgggg gtcttcgcaa aagctatgat tgacattttc tgctcggcag 300
agttcaggga ctggaattgc aagagtattt tcatgctgtg tgaagatgaa ctggaaatcc 360
ctccggcacc tcaatctcaa catttccaaa actgaactca tcacctctct tccccacca 420
ccaaaactgc tctctctct gtattcctra cctccgccat ccacctcggt gctcaagcsg 480
gaaactcggc agcccttcca aactcttccc tctctcactc cccacatccc atcgtctcgg 540
ccttcacaat ctgtcagttc taacctccta agcaactagg ccttcagtaa atgtgattca 600
cctcttcttt cctctctttt cccaaaagca tccctcttag tctaggtcct ttgttggttt 660
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<210> 1087
<211> 479
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (438)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (446)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (474)
<223> n equals a,t,g, or c

<400> 1087
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tgcttctatt gagacaatac cctagaagtt ttgcagtggtc agtgtgatga ccaatgaggt 120
ttatctgagg tgcgattatt gctaattgaa gcagtgccct ggagggtacta gaattcctta 180
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attcctggga tttatcagat accccacttt tgacagggtct tggatttcac ttttcagatc 360
cttttttagga ttggcaaatc gctttcttca ctgtccctct agccaaggac aaaaaagtga 420
ttccaacttc cccagcantt ttgggnaagc ccaaggcaga aggggtttttt ttangggccc 479

<210> 1088

702

<211> 442
 <212> DNA
 <213> Homo sapiens

<400> 1088
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 cttaattggt gagatcttca gcctcagccg ccgaccttcc cttttgtcc agttttggar 180
 ttcccgtttt ttctttgttt gctttcmgag tgtaagggtc ggccggtgag aaagatttcc 240
 cccaaccttg attaatcagc cccctcccc aacttacttc ccttaggacg ggtagggctg 300
 agggacctcc tctcctggaa agtgcttact ttgcctgggg aaggggctag acactgtccc 360
 agggaaaagta atagaagggtg gaagaaatca ataaaatcag accaggacgg agggaaaaaa 420
 aaaaaaaaaa aaaggggggg gg 442

<210> 1089
 <211> 1074
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1055)
 <223> n equals a,t,g, or c

<400> 1089
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 agtgtaacttt ggtaaagtgt tataattaaa gcacatttct atcttgaagt taccatccaa 120
 ggtggtttct ggatgctagt ttaatgattt aaacactagt ggctcactaa ttcactagat 180
 agtttttgtt ctgttttctt tttgctgcct gtttttattt ttataattac attggcatga 240
 atttccactt ttcaatcttc taagggaatat ttgagatttt tgctttttaa acttaatat 300
 tccttttaaaa ttctggaaact tcttaagttg acattttaat ttttttaa taaattctgt 360
 agtgctctta cagaaccgaa tattcttaat gtaagtataa gcattacaaa tccttgtaga 420
 ataaatattt ttagcattgt tacgaagggt aaaaactggg ttttgttcac ttacatgtct 480
 taaaattgcc ttaaaatgaa tacagaaatt tatatggcag cttctagtac agttgactgc 540
 ttaaacatgg cctgacatct agtgataatt ttctctctt caaatttctg ttttctagct 600
 cttaaatatc tgtttctcat tcttataaat caagatgctt gtagtatata attctgagac 660
 taattatctg cttttgaatt tttccactg caattcatat aatgtgaaga tctgtgaaaa 720
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 ccaaggaaat ttaaaatgtc tgcaatgtta tccatcatta ctttytgctg tcagaaggga 900
 tggcagattg aagcttttct ccctatcgca ttttcagagt tgccgtgtca gagcttcacc 960
 ttgggtaagg aaagatgggc aggaattctg ggaaacagaa ctctgagac ctacctctgc 1020
 ctgcctaaaa atgtggactg actcagtatg agatnataac aagaaaacat ttaa 1074

<210> 1090
 <211> 1163
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature

703

<222> (159)

<223> n equals a,t,g, or c

<400> 1090

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actgccccaa gctcaaggag atcaatttcc gtgggaacaa gctgagggac aagcgcttgg 60
agaagatggg cagcggctgc cagaccagat ccatactgga gtacctgcgc gtcggaggcc 120
gtggtggcgg gaaagggcaa gggccgtgcg agggctcgna gaaggaagag agccggagaa 180
gaggagggag aggaagcaga ggcgggaagg tggatgatgg gargagcagg acgtgggaga 240
tgccggccgg ctgctgctca gggtcctgca cgtctctgaa aaccccgtag ctctgacagt 300
cagagtggag cccgaggtcc gggatgtgcg gccctacatt gtggggggccg tgggtgcgagg 360
catggacctg cagccaggga atgcactcaa gcgcttcttc acctcgaga ccaagctcca 420
cgaagatctc tgtgagaaga ggacggctgc cacccttgcc acccacgagc tccgtgccgt 480
caaaggggcc ctgctgtact gcgcccggcc cccacaggac ctcaagattg tccccttggg 540
gcggaaagaa gccaaaggcca aggagctggg gcggcagctg cagctggagg ccgaggagca 600
gaggaagcag aagaagcggc agagtgtgtc gggcctgcac agataccttc acttgctgga 660
tggaatatgaa aattaccctg gtcttgtgga tgcagacggg gatgtgattt ccttcccacc 720
aataaccaac agtgagaaga caaagggttaa gaaaacgact tctgatttgt ttttggaaagt 780
aacaagtgcc accagtctgc agatttgcaa ggatgtcatg gatgccctca ttctgaaaat 840
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cgggccctcc cttctgtgtg tggagcaggt ccgggtgggt gatctggaag ggagcctgaa 1020
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ctgacscag ggccgcctgt ccgcgtttgt ttggccgggt ttgaggagggt ttctatgcgg 1140
caatgctgaa ttatccgtta gat 1163
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<210> 1091

<211> 771

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (56)

<223> n equals a,t,g, or c

<220>

704

<221> misc feature
 <222> (59)
 <223> n equals a,t,g, or c

<400> 1091
 agcnaganan ccaaccctca ctaaagggaa caaaagctgg agctccaccg cggtgncgnc 60
 cgctctagaa ctagtggatc ccccgggctg caggaattcg gcacgagatt ttgagcattc 120
 ctctgatatt tgaaaaggaa gtacaacagg aaaggaagtc tgaggatgga agctaaaatt 180
 ggtatgaatt tatattttag agatcaaaat gtaccttatg ttgaaacctg tgtaagaagt 240
 gatwatgtag aaagagtgaag agtgatagct cttagtctgg aaagcccaact ggcttggttg 300
 ggcatthctc atggcttccc actcaaagtg gatccccaaa atcacttgat ggatttcctt 360
 gctgatttct aagtaaaacta tggtttaaga aagaaatgac agggctcagc actgccctac 420
 agtaccaaga atacaaatgt ttccatgaag tcttcaaagg catttgtaaa attcaggctg 480
 taagtgatta gttagttcat tctgcaacta tttattaact gtatattcag ttccaggctc 540
 tagggtagag attatggata aaggtgaatt agatagatga agtttttgcc ctccacagcaa 600
 aagcttttagc caataattaa agctatcact ggaagtgggt ctgtgccaat aacctagaga 660
 agagcagtgc ttttagagtt gagctatatt cccaatcagt tcttaatggg ggttttaccc 720
 ccttccctct acactgtctt ttcttgagat tggatcatgt gtgtgaaccc a 771

<210> 1092
 <211> 757
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (86)
 <223> n equals a,t,g, or c

<400> 1092
 taggaaatca actgagtggg tgtttggaag aggaaggagc aactctcggg cagcctgccc 60
 aaggagggga gcaagttgca atttanaaga tgccatacgt cgtgtgacag ctcatgagcc 120
 tttcactggg ctggcaattg tctgaacact tgggttcagt tgaaatataat gtattttggc 180
 caaaagccaa gcagcmcttc acaaaaaaaa aacacaamcc taagctaaca aaatgmctgc 240
 attcgtctct tttttaaaagg tagagattaa actgtataga cagcataggg atgaaaggaa 300
 ccaagcgttt ctgtgggatt gagactggta cgtgtacgat gaacctgctg ctttggtttc 360
 tgagaagagg tttgaagaca ttttattaac agcttaattt ttctctttta ctccatagga 420
 acttatttta atagtaacat taacaacaag aataactaaga ctgtttggga attttaaaaa 480
 gctactagtg agaaacccaa tgatagggtg tagagcctga tgactccaaa caaagccatc 540
 acccgcatte ttctctcttc ttctggtgct acagctccaa gggcccttca ctttcatgtc 600
 tgaaatggaa ctttggtttt ttcagtggaa gaatatgttg aagggttcat tttgttctag 660
 aaaaaaaaaa tccctcccaa agtggggcaa aaagctttat atttatttga ttatccaaaa 720
 tacagatcaa agtttagatc taaaaaaaaa aaaaaaaa 757

<210> 1093
 <211> 633
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature

705

<222> (619)

<223> n equals a,t,g, or c

<400> 1093

```
gcaagactct atctcaaaaa taaaataaaa taaaataaaa taaaataatt aataaaatgg 60
tgtagtattt gcatataacc tatgcacatt ctcccatata gtttaatcat ctttagatac 120
ttataatgcc taataacaatg taaatgctat gtaaataagt gttgtttatac tgtattgttt 180
agggaataac aataagaaaa acagtctgta catgttccact acagatgcaa ccattgttaa 240
gcctgactac atcttttttat ctgcagttga ttgaatctat ggatgtggaa cctgtgcata 300
tggaggggtca actgtactat aaataatacgt aatatgccaa cattatataa tcattgcttt 360
ctgcaactgt ttactataat ttcaaaaatta atatcctatt aactgttcct ataaattatc 420
aaatttggca agtgtattac tagcaggaga tggaccttaa attatgacaa ctttatattt 480
tttgatagca tctcttgaaa aagaatttta atgattctaa taagagggtc tttttctttt 540
ttccatttcc ttgacaaaata gtactcattt aaaaactaga gggctagggt tagtgggtca 600
cgctgtaat ctcagcacnt ttgggaaggc tga 633
```

<210> 1094

<211> 548

<212> DNA

<213> Homo sapiens

<400> 1094

```
gtcgggggaca cattccaaga ggctaaaaag caaatttctg tacattagga gatttgtgag 60
tccttaggaa aggctcagaa gagggctcca cctagcacia tacctgacat agaaagtggg 120
cagtgtctgc agaatgagtc ggcatgaacc gtactttcct tggcaggggt attaggtggg 180
aaatacctgc agaataatgg gattgtacta ggggtttctt tggctttaga aaccattttg 240
tttactaata gattcccaga ggataccttg atctcaccia gctatttgcc agaatgtctc 300
ctgatggcct cattgaagaa aggggggacta tgagccagat gctgggtgcc tgaagatttg 360
tagtttgtgg gatagtccta acttggcagg gtttgattaa cagaatgaag tctgttcctt 420
agaggggaagt ctttgcttgc tgccctgacc tgctggacac tgtaatttg gatgaggtca 480
aagaaggcat agttaccaca tttgcaggag accctaacct ggaaatagta aattacataa 540
cattcaaa 548
```

<210> 1095

<211> 860

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (636)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (758)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (768)

706

<223> n equals a,t,g, or c

<400> 1095

```
cagtgaacaa aattatTTTT ttaaagcaca taatccctag tatagtcaga tatatttattc 60
acatagagca actaggttgc aaatatagtt cagtgcacatt tctagagaaa ctttttctac 120
tcccataggc tcttcaaagc atggaacttt tataacaacag aaatgttgac agaaattgct 180
gtagtttagg gttgaagtac tgtatgatgg gcagcaatca tgtattaact tagaagggga 240
aattgaaata taggaccgaa tttggTTTT tcagtttcca gagtactgct gccaacctag 300
acactgattt ttcagagttt gaaatgtaaa tttcttcccc ggacttgatt gcacatgaag 360
ctggactgcg ttagtcatcc tgtcccaaag cgctgtgggg gccaggggtgg aggtctcaag 420
gcaccccttta tgacctggcc attggatgta aaagaaaaca tattccatgc tgtgggttctt 480
gtatcttgtt tcattcctca ccattgaaag agaaagtcca tgtattgtct ccagcacatc 540
cttraaatgt tatactggga tggattactg atgcccacgc gtagttgagc ccagaagag 600
ggtagtagca tctctgcctc aggtgatgat ttgtancttg gccagaggag agcggagtc 660
ccagtatatac tgtggtccat gttgctagct ctggtaaaat taaaaatctg gtaagatgtt 720
tgtatcatta gtacactaga cagtaagctc tgtcttgntg ttttcaanta acctatattc 780
acttttgttt gggcaaagac atttaaattg aaattcaatt ctaatttttg ttaattgtgg 840
aaaggggtaa ttaacagatc                                     860
```

<210> 1096

<211> 1754

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (48)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1543)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1584)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1694)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1738)

<223> n equals a,t,g, or c

<400> 1096

```
ggagaaattg attcttcttc tctctttgcc aggaatagac atcaatgnta aagacaatgc 60
```


707

```

tggctggacg cctttgcatg aagcctgtaa ctatggcaac acagtgtgtg tccaggaaat 120
tttgcaacgt tgtccagagg tagatctgct cactcaagtg gacggggtga ctcccttgca 180
tgatgcactg tcaaacggac atgtagaaat tggcaagctg ctactacagc atggggggccc 240
agtgccttta caacagagga atgctaaggg agaattgccc ttggattatg tggtttcacc 300
tcaaatacaa gaagaactgy ttgctattac aaaaatasaa gatacagtgg agaactttca 360
tgcacaagca gagaaacatt ttcattacca gcaacttgaa ttgggtcct ttttacttag 420
taggatgttg ctaaattttt gtccaatttt tgatttatct tcagagttca ttttagcttc 480
caaagggtta actcatctaa atgaactgct tatggcttgt aaaagtcata aagaaaccac 540
cagtgttcat actgactggt tactggatct ttatgctgga aatataaaga cattgcagaa 600
actcccacac attcttaagg aactgcctga gaatttgaaa gtgtgtcctg gggtagacac 660
tgaggccttg atgataacat tggaaatgat gtgtcgggtca gtcattggagt tttcatgatg 720
atgctagaaa gtatggattg actttctaaa tctgttcagt ttgcattggg acttactgtg 780
gacttcatag cttactgaca gatagtaatt tgatttatct attgacagac tttgcagcct 840
tgctaaatth taaaagcatt tttaaaaaaa cttctacaaa actctagtat gggcttctga 900
ctttttccag ggtgtagaat ttgactcaaa agtaaaaaata attttgthtt agtatattct 960
actttcatta atgttttttt gttctgaaag tgatattata ttgtacatgt aaaattaatt 1020
taaataatth ttcaaataaa aatgtaatgt cctgtattct agatgttcta ggtcttagaa 1080
tcatggcaag catattcata caaatgcgta cctataaaact tgtagctcct gactcttagg 1140
gatggattht gaggaaaaaa caagactaaa caaaaacatg tagctcccta tttcttctct 1200
ctaggttgth ggactgaaat atgcatttht gctttgtgtg tttctaaaat aaacatttht 1260
aaaatttaca gtaataatta atattcttht ggtttthtaa tgcagcaaat atgcagagtc 1320
tgacagttca attccttgat ctgthttatt ttagcaattc atatacaaaa tgtatctgtc 1380
gctgccctat gtaaccctag attctgtacc tgaaaacatt ctgctgcata ggtttatgag 1440
tttaatatth agatattgag tggcataagt aatagatttg agattattth agatcttaat 1500
atatagtatg aattthactg gtagtaatgt tthaatthtc agnthttct tatagcagth 1560
tgtagtaaaa ctaaaagaaa gggngtggat aataaccact tttgagattg gagtthcttc 1620
actactggga gtaagttaca ttatgatata ggtggaaaat aaacacttcc atttagctth 1680
tatgtaattc aagngatgac cttagcagth aatctgctaa agcaatacac ttcagthnta 1740
ttttggaaat agat 1754

```

<210> 1097

<211> 774

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (765)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (768)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (772)

<223> n equals a,t,g, or c

<400> 1097

708

```

aggattattc cttctcatct gctgcaatgg gtcaatgtgt taaggagagg agcgagacag 60
caagaaccgc attcattcag tcatacagrc caaaaggagg aatgtcgccc agccctctaa 120
actgaccacg aaccagatc atgtytcaac tgctacctct cctacttaga aagaagtaac 180
tccaccaaaag cagggttctg ggacaaatat ttttttattg atcatataca aatagatgaa 240
ggatggactt ggatgttaag aaaaataata ctatacaaaa tcgagagtag acagttgccc 300
ctagacttaa attaaaagtg tgcacattag ataatttaac ccaatgtatc aggtaaaaac 360
ttgaacaaac cttttggcct cttccttaaa attcagggaa gcatgtcctc cacaaaacag 420
aatcaaaata taaataaaag actgccttaa gacgaaagga aaccttacag atgaaaagaa 480
gccagatgag aggcacttaa ctaagaatga aaagaaactg agtggacaaa ataattatga 540
gaagatgaac cttcaaatca gaaagagggg aaaaagctta ttgatacta tgggaactca 600
aaagagagtg aacacaaatg tgaaaattcc aagagtgaag aaaagtatca taactacatt 660
tagagcatga gaaaaagtat acaattttga gtaataagaa cagaaatcaa aagtaactat 720
tgtatgctgt atttttagtag agcaacmctg aagaagaaag gaaancanga anta 774

```

<210> 1098

<211> 164

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (162)

<223> n equals a,t,g, or c

<400> 1098

```

aattcggcag agctgtcacc caggctggag tggtgtggca caatcttggc ttattgcagc 60
ctcaattcct gggcttaaac agtcctccca cctcagcctc ctgggtagcc ggaactacag 120
tcacggcact tccatgtccg gataatTTTT tttttttttt tnag 164

```

<210> 1099

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (527)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (568)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (569)

<223> n equals a,t,g, or c

<400> 1099

```

ggcagctaag acttcagtaa aattgggggt gggggggaggg ttgacatttt ccgactgcct 60

```

709

```

gttacgtgcc aagtgccttt tgtaaggac ataatgtttt tractgggga tcatgtttgg 120
ctgatgtaaa tattaatgcc aaaataggag ctaggatgaa agtaacactg taattagtag 180
tagaatttat ttcataattaa aatgtgtcat gacgtaattt ttatggcttg gctcaagcaa 240
caattttcag agtgcacgta agtatcaacg cgtaaaactt aacattttac agtgttattt 300
ggattatttc tctatgaagc tgtctggatc ggtctccttt tcccattggg taattgggta 360
atgctcagat tttggctcct agaatcgatc tgtgtgttcc cggctctggc atctcattat 420
gtcatttgct gkattttttg atatatattt gtacgtgcaa attgargtga awttgttggt 480
ttagattaag actgttgagg ctcaagctac aacgaggtgt ctctggnggt aaaaaaactg 540
gcagttttta gatttgggta aatccccgnc cccggg 576

```

<210> 1100

<211> 829

<212> DNA

<213> Homo sapiens

<400> 1100

```

aaaaaaaaa aaaaaaaaga atatccctgt ggcaatagtc tgatgggtgtt tggacacaag 60
aaaagttagt gttttgagtc gtgagtggtt gctagggcat ggcaactctc agtttaacag 120
ctgatccatt aaaccttttc tgacatttgt gccttggtct catgctagaa ttaatgctgg 180
atttttctct catttgacca tcaatgtagt ttactttatt gaaaggaaaa aagacttaac 240
acaagatagg aaagatgagt atgagaagta aaacattctg ctgggggtgct acatagaagg 300
ttaggttgta ggggctttga ttttaattta aacttattat cgattgatat ttctgtatct 360
cactaaatgc ggttgaagag tgtgtgtgtg tgtgygcgcg cgcgcgatgtg gccaaaaaat 420
agtgccataa tgtcaaatc ttcctttgct ctgtttttga gagttgatga catcaggcac 480
ttttcagtg ttggggaaat tgattgggat acctccccc aaccaactca agtctgtaac 540
tggaagccag gtgggttggt ttctggtcgg ctttgtcctc tttcttttac cgtcatccta 600
ttcaccagca ctaaatgtaa gtagatgttt tagaattgca atattttattg gtttagtatt 660
tgtcatcctt agaaatgtta atgatgtatt tttatatgta taatataaat ttrtgtacag 720
tatgtgtgta tatgtatttc aggatgttat agtattgtac tttgtatgtg atgggtttttg 780
tgtcttcata ataaatatgt ccctttttaa aaaaaaaaaa aaaaaattc 829

```

<210> 1101

<211> 1020

<212> DNA

<213> Homo sapiens

<400> 1101

```

gcgggagtg gccacgccgc gcgtggggct gtgggtggccg cggctctcag atatattttt 60
gccatcatgg atcagtttgg agatatatta gaaggtgaag tggaccattc tttctttgac 120
agtgactttg aagaaggaaa gaaatgtgaa ctaactcakt ttttgacaag caaatgatg 180
acccaaagga aagaatagat aaagatacaa aaaatgtaaa ttcgaacact ggaatgcaaa 240
caacagaaaa ttatcttact gagaagggaa atgaaagaaa cgtgaaattt cccccagaac 300
accctgtaga gaatgatgtt acacaaactg taagttcttt ctcatgcca gcctcttcaa 360
gatcaaaaaa attgtgtgat gttacaacag gacttaaaat acacgtgtcc attccaaata 420
gaattcccaa aattgtaaaa gaaggtgaag atgattacta cacagatgga gaggaaagca 480
gtgatgatgg gaagaaatac catgtgaagt ccaagtcgcg taaaccatct actaacgtta 540
aaaaaagcat aaggaaaaag tattgcaaag ttagctcctc ttctctctcc tctttatctt 600
ctcatcttc aggttcaggt acagattgtt tagatgcagg gtctgatagc catctatctg 660
attcgtctcc gtcacttaag tcatctaaga aacatgtatc tgggtataacc ctctgtcac 720
caaaacacaa gtataaatca ggaataaaat cgacagaaac acagccttca agtactacac 780
caaatgtgg ccactaccct gaggagtctg aagatactgt gactgacgta agtcccttat 840

```

710

```

caactccaga cattagccct cttcagtctt ttgaactggg catagcaa at gatcaaaaag 900
tgaaaattaa aaagcaagaa aatgtgagcc aagaaatata tgaagatgtt gaggatttga 960
aaaataattc aaaatatttg aaagcagcca aaaaagggga agaaaacttg ggcctgttgt 1020

```

<210> 1102

<211> 593

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<400> 1102

```

aaattctcaa atatgggaga aattnnttc ttgagaatta tctgagtc at taatattttt 60
caaaaacagc tctcactgac ttgaacctct tctgtaagct ctaacctttt acctgcttta 120
catttccact tgaatgtcta gtaggcacat cttgacccaa aacagctttt gattcctgtt 180
ctccaacctg ttctctctct agttttctcc atctcagaaa tgttacttcc tctgcaaagt 240
ctttccctga cttatctaaa ataataacct cctctgtttg ctgtgggaat ttgtatagaa 300
tggtgggaaa atttcaagtt tcatatttgg attagctctg acatttattt atctgaacac 360
tggttaattgc ctcagtaaa acactgataa taagtacctt ttagagttat tttaatcttt 420
aatgcttttaa tgtgtaggaa gagtatagtg tcctgttttg cacagaaagg cattctgtaa 480
ataataagtt gccttaattt tcctgtaatg ttcattatat tgttgtggga aggtattttac 540
tcctattatt aaaaataaaa atgtgtaaaa tttaaaataa caaaaaaaaa aaa 593

```

<210> 1103

<211> 1429

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<400> 1103

```

tgnccaggta actttacact tacaatgaat tcatggattt tgtagcagc attggctttc 60
tcaaaaggac aaactcaata tcgttataaa atataattcg tgatcacaaa ttatacaaaa 120
atcagtagaa acagtttttt atgttcagat taaaaaaaaa aacttgggat aattttarat 180
ttacaraaaa gttgcaaaga tacatggaga gcttctgtga ccaactaccc agttccccca 240
gtgttaacct tttatttaac catgaagcat ttgtcagaag ctaagtaacc agcaatggca 300
attactatta acggaacttt gactttattt ttcagattgt actagttttt taattaatgt 360
catttttctt ttccaggatc caatctagga taccacactg aattagtcgt catgccta at 420
tagcctctgg tctgtgatag ttccacagtc tttctttttc ataaccttga cagttttgag 480
gagtactggt caggtgtttt gtagaatatt cctcaatttg gggttgtctg atgttttctt 540
catgggttaga gtgggggttat agatttttag gaagaatacc agaggtgaag gtccttctca 600
ctgcatcatg tcaggagtta catgctatca gcttgatggg gtattaaactt tggacacttg 660
gttaaggtag tgtgtgttgg ttttttgctg ctgaaaatta ctgttatttt ccctttccat 720
acttctgttc tttggaaaac agtcactaag tccagtcatg ggaggtgggt ggtgggaaag 780
attacattca accccctgga agtggaata tccatatgta gtatttggaa tttttctata 840

```

711

```

tggaaaattt gtttctccct cccaccctaa tttgtttaca tcagtatgga ctcatgtata 900
ttttgtattt tgggtaacac agtattttatt ttgttgctta agttgtccag cttggctatt 960
aggagttctg ccagggttggc tactatgtcc ctttgatgtg cccatccttt tgatttttga 1020
gcactttctta ctttctggca ctacaagatg ctccagggttc atcttggata ttccctgccc 1080
caaccctaga atccctagaa tcaaccctg ctccaaagag ccctgggttc tttgttgga 1140
gaatcatact tagaaaccaa gatctgggca ttagatgtgc ttgttgctac tgggatgtca 1200
ctgtttgtag cagagttgag aaatatgtat gtatattaat ccatgcatat gtacacatct 1260
ataattattt atgtgtgtac aaagctaaac atgagtttgt actgccgtct tcaactcaaa 1320
atttgtccca aaattttgtg gcataatgtt agatttttaa gttgatattt tccctattga 1380
cagaataaac tcattaaaag agcaaaaaaa aaaaaaaaaa aaaaaaatt 1429

```

<210> 1104

<211> 727

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (520)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (658)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (709)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (714)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (716)

<223> n equals a,t,g, or c

<400> 1104

```

ngttgagtta tttagaattt tatctcaagt gaaagctgat ggattcatct gctttggctg 60
aaattaaaact tatcattagt ctagctagca ttccagcatg atattgcaag cactttctcat 120
tgctaaaaaat aaataaacca aagtttaacc gaatcagtta gggaaagtga tttaaaacttt 180
atttaaagag gtatttttcta attatgcaca gatatctact ttatacaaat acttttatatg 240

```

712

```

gctatttttg agaaaaccct cacattttta tgtttatgct agggatgaac ctgaaaattc 300
tattacgttt atttagattt caaaggcaaa tattgattcc tatgctctgt ggtttatttc 360
ttttttctat tgcttctttc tcccttgagt cccttgaagg cagggaatag acttctagaa 420
aacctgagag gaaaaagaat tctttttaca ggaggcagca gaaaactgtc tgaagggtca 480
attgttttat ctccctttcc actctctttc caatttgggn ttggtggtc tgaagaagaa 540
aaagaaattt tatgtatgta tgtgtaaata tgtgtatata tttctatctc ttgctacaat 600
aattccaact aagtgaactt ctcaattatc atcatactta cttaccttat attaacanat 660
taagatgatg ctgccaaaac aagtctagca gggaaaacag gttctacant tttngnaaat 720
aaattaa                                         727

```

<210> 1105

<211> 605

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<400> 1105

```

atgtctgcag tatanatagc atagacattt ggtgtgaagg gaggagaaag gaagtagtag 60
ttctgagaat attcatttga acagagtgc tatggaagaa tgaatagcaa aaaaaggaga 120
atTTTTTTTaa aaagatctct cactgggaaa agaaaaagtt atgcatttat aaagtaatta 180
aactgggtttt ccttgtactt tattaatctg aatctaattg cacttcctta cgagggtttt 240
cagatgtgct tgtagttaat ggcaacatta tcagaatgac tacacagaca gtccactct 300
gaggagatga ctttgggaaga aaccattttg gaactacaca ccctgctatg tctgtggaga 360
aatggaaactg caatcctcaa gagtcacact tcatattcct tcctttcaag tggttgataa 420
aaggtagtgc ttcaagcaca ggatttatgg aatagttggc aaattaaaca acatgctttt 480
tattttgact accatttaag tggaatcttt gaactttttt tttgacatgt gaatctctaa 540
tgtggtgaga gagaaaaaca taaaaatata aaaacattca aaaaaaaaaa aaaagggcgg 600
ccgct                                         605

```

<210> 1106

<211> 805

<212> DNA

<213> Homo sapiens

<400> 1106

```

ggggtgcacc tgcttgtgca gtcagcatgt agctgccttt ccatttcatt ctctactggg 60
ctaaaaattg cagctacaag tgttaccatc ttgaagcagt ccacttccat tcaatttttt 120
tttttttaatt ttagaataac agtgtcccca taccaaagga agcctgctag ctcatctcat 180
gtataaaattt cccatcttca aacagtttag gtgtatttgt tgctctgggc acattctgca 240
taaaagaaat cctcttaagc ctatgggttaa gaaaagcctt gaagtttata ttcagttaaa 300
atatatgtcg gtggagatag ccagtgcctc taattttgac ttagtttcat acagtaaagc 360
ctaaatgtga aacgcacacg ctggaagata ttgttcctat caatattttg ctttttataa 420
caaggggtttg ttcataattga tgccattttt gcaggatttc ttcgtgattt ctgtccatat 480
gaaaatgctg acattaaaca ttaacacatg gagaccgtgc cctgtggccc tgccgtggct 540
gccagcatgg tctgtgtttc cttgtggatt cacctgtggc cctgctgtgg ccaccagcat 600
ggctctgtgc ctgctggatt cactgcagct gtccgatgcg agtttctgtc ataactcatt 660
gtttcctgat acaattgttc ttattctttt caaaaactgt aaaataatct cctccctcaa 720

```

713

atgcaaaggt tgtttttgtt ctgtttctgt tttctttgaa ataaaattat aacgttaaaa 780
 gaaaaaaaaa aaaaaaaaaa aaaaa 805

<210> 1107
 <211> 355
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (10)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (19)
 <223> n equals a,t,g, or c

<400> 1107
 acactatatn tagggacanc tgcccgtacc ggtccggaat tcccgggtcg acccaccggt 60
 ccgtactgcc ctttttyaac ctcagatgtg actttcatta taggaagttc tcaggcattt 120
 tctcttgga taatacctct tctctcttct ctttatgtcc ttgtgccgca ttctgggtta 180
 ttccttttagc tctagggttaa gttcactaat tcttccttta gctgtatttc attattgttt 240
 aagctgtcca ttgcatttta aactttcttt caaatatctt cccttccctt cctttccctt 300
 ctcttccctg ccctgccctg ccctgccctg ccctgccctc ccgtccctc cctc 355

<210> 1108
 <211> 447
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (357)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (408)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (442)
 <223> n equals a,t,g, or c

<400> 1108
 cccacgcgtc cgggttattt gtattttacc tggcaaccct atgttggagc ctccctccct 60
 gctgcagcca acaggggtag aggatctgag ctgcttattt gtaactgaaa gtccatggga 120
 ctgcttttat ttgggggaat ttttctgtta actgtcatta tgaaagtgat cacgatgaga 180
 gattcagatt tattttttaa attcgggtga ggaatatctc ctcatgatt tagatctttg 240

714

```

atTTTTTTtca tcagaggttt tgytttcttg ctatagattt tgcatatctt ttgttagatt 300
tatacctgaa ggTTTTgtct ttttggaatg tgtgtttttg cacgtgtttt gctaatntgt 360
ttttaaattc caaattttat tgcttggcat ataacaattt gaatttttngg tatattaacc 420
ctggtgaaaa ggaacccaaa anaacct                                     447

```

<210> 1109

<211> 802

<212> DNA

<213> Homo sapiens

<400> 1109

```

ggttacctcc tgaatcactg tatatgccat gttttgcat aagattgctt gcattttctg 60
ctcaacaatg tgtatcttct gtttgggaaa gcactagtga tggattactt tttaaagcaa 120
tacatttagc ttgcaaatg tgccttttaa aaaaaaataa ggcagacttt tgagggccaa 180
gaagggaagc gtccagtttt ccaaaaatcc tttttccctg ctatcagaaa tgtgaaacca 240
aatttagcaa ccaagattaa tgaaaagatg ggttttccat tagtgctgtc cctatcttgt 300
tcttggtctt gttatgtcct ttcccctaga ctgtatcccg acaaaatgtc ctagtaacaa 360
attgcttttt aagctcctgt tctgggaaaa ctaagcatta aaattgatta ttctaaaaca 420
taaagtggac taaagccatc ctattttata attttcta at gcaaagtggg ttagtataga 480
gttaacactt agaagtttat agtttactgt ttttattctt atgtactgta aggaccatat 540
ttgagttttt ggtctattcc taccattgtt tctttgtggg gaggagttgg ggcggtttgg 600
gggattgggt tttttttttt gtttttttaa actacaggta tttgtaaaac aatgttttggg 660
ttcaaacaaa ttagttgtta aacatctgta atccagtttt ctgtaaatgt tgctgttgtt 720
ctaagctctg ttaatgttaa gcatttcttg tatataaaat tacaataaaa tgttaaaact 780
gaaaaaaaaa aaaaaaaaaa aa                                     802

```

<210> 1110

<211> 458

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (407)

<223> n equals a,t,g, or c

<400> 1110

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aaaatgcaaa gctgattttc atgtttatat atattcatat cttgatatat tgcaatttta 60
gagtttctgc agtctgtcta acttggctgt ttgttcatag gccagatcaa actaccctca 120
ttccccaaaa cttggattgt gaagggatta gtgccccaga actctctgtg ttactggcag 180
ggcaaaatgg gtaggaatag tctggcttag ggaaaaagac atattttctc tctaacacaa 240
ctggcagata ctgaagtggg caggtggcaa gaaaaggcaa gtactgagct gattcagact 300
tgcagaaagc ttcctctcct ccttcttagc aaaatgaaag gctctgggaa aaggcacctg 360
cctttccctg ccttgaggat cctggcatcc ttgagtcctt attgaanatt aatttaatga 420
ccttggtcaac aatagcatta cctaatacaca gagcatca                                     458

```

<210> 1111

<211> 754

<212> DNA

<213> Homo sapiens

715

<220>
<221> misc feature
<222> (660)
<223> n equals a,t,g, or c

<400> 1111
tataggga gctggtacgc ctgcaggtac cgggtccggaa ttcccggggtc gacccacgcg 60
tccgcaaatt cttttgtcaa atttgcaaatt attgaagaag acacaccatc ctatcacaga 120
cgttatgact tttttgtgtc tcgattcagt gccatgtgcc attcctgtca tagtgatcca 180
gaaatacgaa cagagatacg aattgctgga attagaggta ttcaagggtg ggttcgcaaa 240
acagtcaacg atgaacttcg ggccaccatt tgggaacctc agcatatgga taagattggt 300
ccatccctcc tgtttaacat gcaaaagata gaagaagttg acagtcgcat aggccctcct 360
tcttctcctt ctgcaactga caaagaagag aatcctgctg tgctggctga aaactgtttc 420
agagaactgc tgggtcgagc aacttttgagg aatatgaata atgctgktag accagttttt 480
gcgcathtag atcatcacia actgkgggat cccaatgaat ttgcagttca ctgctttaaa 540
attataatgt attccattca ggctcagtat tctcaccatg tgatccagga gattctagga 600
caccttgatg ctgcgtaaaa agatgctccc ggggttcgagc aggtattatt cagggttctgn 660
tagaggctgt tgcattgctg ctaaggttca taggtcgaca gtgcgaagct tcataccttt 720
gaacatcgcg ctgagcgtga tcgaacaatg attc 754

<210> 1112
<211> 624
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (549)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (554)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (562)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (591)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (621)
<223> n equals a,t,g, or c

<400> 1112

716

```

ggtcctgagc tggctgccgc ttccaagaca gtcgctttga gggctcttgg caccgatttt 60
gttaaaatgc atgagcttag ggttgtgcag cctgtagggg caggggtggt ctcagaatgg 120
atttggtggc cccaccgtta attaaagctcc tgacccttgg gccggtggtg aggtgggaag 180
atgagcctgt gtctcccatg ctgagccaag atcctcaggt accagtagcg gtcaaagcac 240
ctgctccctg aaggaagctt acctggctta gcctcattcc tgctcgtaag tcaggcattc 300
agcttgcaaa gatccccaag cacacaagga gagtcagctg actgagggcc aacagaaaca 360
gcaggcagcc gctgtcagcc acaaagaaac gcagatcctg aaactgtcat catacagggtg 420
agaggatagt tatgtgtgag gtgttcaaag aaagtcgcgc agtcagtgat gagaaagctg 480
katgggtaca tactgtcacg catgaatagg caggactcct taaagaactt tttgggaaat 540
gaaaaacang ccangtgcaa tnggttcatg cctataatcc ccaacacttt nggaggccta 600
aagggggagg atcactttga ncct 624

```

<210> 1113

<211> 660

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (658)

<223> n equals a,t,g, or c

<400> 1113

```

ggaggggaaa agccctctct tggcaccccc tcttccctga ctgctgtccc ctaccakcc 60
ttgccccctt catccttttg cgtttggtat tgagactctc ctagactcta ctctcttttc 120
ttttgtatgg acagttcccc ttcagtccea tccccctaca catacaccca gccggggcca 180
aatattact tatataaaag ttgtaaatat gtgaaatttt atccctgtgc cttttcccca 240
cctcaggccc tacccttgga cctccccc aa ccttccctct ctcttctttg gctgttgtaa 300
ttatctgggg tttgtactgt acatatccgg ggtgtgtgtg tgtgggctgg gggcaaccct 360
tctgtacaga gcttccctggc cccctccccc cccgcccctc tgettccctc cccaccacc 420
acctcaaggg tagggagttg ctcttccctac ctgttttatt ttgttttctc gttctccctc 480
cccacccac tcccagcctt atctatcccc cctcaactgtc cctttttctc cactcccagc 540
cccatttctt ttttttctgg agtgtgtggt gaaacagaaa aaaacatgtt taataaacgg 600
agattgttct tttaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaanc 660

```

<210> 1114

<211> 517

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (508)

<223> n equals a,t,g, or c

<400> 1114

```

ttttgaaatg tttttgattg ttttatataa sctagagtga cttcccttac ccttatttag 60
atctgcatat atagttctag tatgaagttt aatagttaag gagtttagcta tttgttatct 120
ttaagagtag ggtattgacg tgaacaattg cagtattttg catgatactg ttttatagat 180
gaccttttag gaaagtgggt cattttattaa ttgaactgaa gaagtagttc agttgaattc 240
agtatcataa ttcacaaatt ggaggctgtt gattttgatt catttaaggt ttaaaatctt 300

```

717

tattaattgc aaacagtgc attatttata cttcacagtg ccttcccaga ccttccacct 360
taggttctgc tgcaaaaagc accaggtaag cmcaacctaa ggacatatat aaataaatat 420
ttcaatrcat taatgttgtc cctgtgaggt ttttgtgggt gtgtattcaa aggcaatctg 480
ctactgcttc cccaaaatgt attttgnat tttatgc 517

<210> 1115

<211> 886

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (274)

<223> n equals a,t,g, or c

<400> 1115

gccgtcntca aaaaaaaaaa aaaaaaaaaa acaaaaaaaaaa aacaacccag aaaaacccaa 60
aaaacaaaca aacaaaagaa ccaaaaaccc ctttctttca tgcttagatt cattccaaaa 120
agggtttaaga cagcaacaag tgattccagg atctcagctg tgggcatect tgtgttactg 180
gatggctgtg tgtaaaytgt tagcagctgg aataagtga gaggggtctg tcttcatact 240
caaagtcctt tgctcatgcc caaggccaga ggynactcat gctgaaacat taccatctcc 300
ctccaaagtg cagggttttag tcaactgagta ctgggtggag cacatgactg gatcccagtt 360
aatccctccc agcttaccag taaaacctca ggattcatgc tttcctggga gccacctkeg 420
gccactaaga taggagcggg gttcagacat ggccaggcgc tcctaatactc agacccaaag 480
tgcaattttt ggcagcctgc rtgagaagga ggggtgggagg aaaggtggct agaaccaagg 540
gtagcagcct gggggccttga gaggaaaccc argcacagcc catcctaccc tgtctcacga 600
gcagcccgtc ctccctctga ctccccctac cccacacacc gagegccatt ctcttgctgc 660
ctcatctatt ctggtttaggt acttactgag catcaggtgc taggcaagtg gctggggaga 720
gacaacgttt aatgactcag tctccgcctg cacagagcct ttgagtctag agggagacac 780
agacttactg acaggctggg ttgtgtaata agtgctacgg gaggaaaagc tgagagtgtc 840
tgagaattta tgagatgtgt gtctcatcag acttgggcat caaaaa 886

<210> 1116

<211> 315

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (47)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (109)

<223> n equals a,t,g, or c

718

<400> 1116

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agacttatga taataagcaa tatttgcaga gtatttgtat gtgccanaca ctattgtaag 60
tgcttcatca tgtactgatt catttaatac tcacagaaat cgtaaatang ggtattattc 120
ttatcctcac tctatggatt aaaaaaacta aggcacaaag ggttaaagcc tccttgcttg 180
agattataga ctgtaagttt gaacgttgag cacttggaat acagarttca tgctgtaaac 240
taccacacta tagggcctcc aatatgataa tttataaaat atttgaataa aaaatgaata 300
ctagttccac atttt                                     315

```

<210> 1117

<211> 749

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (16)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<400> 1117

```

nccgacagtg accggntccg gaaattnccc gggtagcacc cacgcgtacc gccagcatgg 60
gccaacagaa caaggacctt gtctctatct tgttttttgt ttttgttttt gttttttcat 120
ttttcagtggt tcttaagttt aaaacaaaaa aaaaaaaaaa aagaaaaaga aatgcaaagc 180
tttatcttat gagtcagagg acttgatact aagtcttaag attgtaatac tgccccctgcc 240
aagttaatct gcaaatccaa caaattcaaa aaaacaaaaa cctccactcc cagatacctt 300
tttgcaaaaa ttgacaaktt gatcttaaaa tttatgtgga cccagagtag ccaaaataat 360
cttgataaat aacatatttg gagtactcac tcggatatca aaacttaggg caaaactaca 420
attataagac aggcataaag ataagcgaaa taaaagtcca gaaataaacc cttgtgtttt 480
gtagtcartt gatgtttggc aaaagttcca agacaattca aatgggaaaag aatagtctct 540
tcaacaaatg gttttgggac aagtaaatat tgacccctcc tttatgcatg atacaaaagt 600
taaactcgaa atgtaacaaa cacctaaata taagaattaa aactataaaa ctctaagagg 660
aatatctaag ggtaaattctt cagacttttg ggttacacaa agccttggtg atgtgacaag 720
tcacaaaaga aaaatagatg aacaccaca                                     749

```

<210> 1118

<211> 716

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

719

<222> (598)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (636)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (686)
 <223> n equals a,t,g, or c

<400> 1118
 gggagatggc gtgcaagtat ccgctgcggg gttctgggtgc tagagtggag aggctggcaa 60
 agaagaaggc acacgcatgg tgagaatccg gcctgagccg aagcggagtt tgctatggac 120
 agcaaccatc aaagtaatta caaactcagt aaaactgaga agaagttctt aaggaaacag 180
 attaaagcca agcatacttt gctgagacat gaaggcattg agacagtatc ctatgccact 240
 cagagcctgg ttgttgccaa tgggtggtttg ggtaatgggtg tgagtcggaa ccagctgctc 300
 ccggttttag agaaatgtgg actggtggat gctctcttaa tgccacctaa caagccgtac 360
 tcatttgcaa gatacagaac tacagaagaa tctaagagag cctatgttac cctcaatgga 420
 aaagaagtag tggatgattt aggacaaaag atcactctgt atttgaattt tgtggaaaaa 480
 gtgcagtgga aggagttgag gcctcaagcc ttaccaccag gactcatggg agtagaagaa 540
 ataatttctt ctgaggagga gaaaatgctt ttggaaagtg ttgattggac agaagatnca 600
 gaccatcaaa actctcaaaa aatccttaaa acacanaaga gtaaagcatt ttggttatga 660
 gttccactat gagaacaaca atgtanataa agataagcca ttatctgggg gtcctt 716

<210> 1119
 <211> 362
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (265)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (276)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (347)
 <223> n equals a,t,g, or c

<400> 1119
 gttagtgtat aatgagccca agtgtgattc ttcccatttg ggaattctgt gaatcctgct 60
 gtaggttgtt gcctgtctga ttataaaaaga ctaggctcat gtttttgctt taaatgtttg 120
 agattatggg cttataacctt agtgcttctg gggcaatctg aacattgttt gctttgtaaa 180

720

```

ataattttctt ttagagtart ctcatgccaa atttactggc ctttgattca gtacagttgg 240
gtttactgta ttagtagtaaar ttganaccct gcgtanattg gtctcatggt agcattcttg 300
gggaagcttt gaaaaatttc ccaagttaaa aattccagaa attgatnttc cccagatctt 360
ta 362

```

<210> 1120

<211> 1248

<212> DNA

<213> Homo sapiens

<400> 1120

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gcagaaatgc tggggcctgg aataagggag gagaggggac tggagagtgt ggggaatgga 60
aagaagcagt ttactctaga ctaaagagta tattggggga ggaagagagg gaggcacgta 120
tgaacaagca atgagaagac caggaaaaga aagagctgaa aatggagaaa gccacagtta 180
gaactgttgg atacaggaga agaaacagcg gctccactam agaccgccc cccggttkga 240
tgtccttcca agaatggaat ccttccctgg tgatgggtctc tcrccctgtc ttaccagcat 300
ccactctccc ttgtcctccc aggggtgtat ctgagtcagc cagtggcttc ttgatgatgg 360
tggtggtggt ttagtgtgta caggctccct ttaggttatt taagggtgca tgtcccctgc 420
ttgaacctg aaggccgggt aatgagccat ttccatggtg cccagctgag gaccaggtgt 480
ctctgagaat ccaaaccatc tggagagtat ctgagaacca accaagtaaa agtctcgttg 540
ctcatatata gtagacaaag agccagaaaa ttaactgaaa agcagtttag acattggggg 600
aggcyggatc tctcgagctg tcttgctgag tgccctgtgt gtaagtccca ataaacttag 660
ctactcgcca agctggactt gtttgagtca ttccttggtc tcatggctcc tttcccgtt 720
tgagggcaag ttctgtctc aagtttttgt cctaacagtg gtaaagggtga ttgtggtgat 780
gtcagcagac agcaagagga cttgacatgg ggtcgccct gcttggggcc agcgtacact 840
gagggaccga tgacatttca atgaaactcc aaatgctata ttggaaacgt tgatgtgtga 900
agaaaaataa aagcaaaacc agatgccagg aacaagtcaa aatgttgtgg tgcattgagg 960
agatgaacca gcctgcagtc aagagacccc atctctctga gcctcagttt cctcatcagc 1020
tgggaaaggg gggctggaca agatgatata tcacatccac ctggccctct tctcttggtg 1080
tctagagact tgtgttcaag caacactgac tgatgactga gccttttggt gctgatatat 1140
gggctccctc aggtctctgg tgccctgact ctcttctcca tgattcttct tccaggctct 1200
caggagagcta ggcctccatg gcccttctg cttactctcc agactgcc 1248

```

<210> 1121

<211> 723

<212> DNA

<213> Homo sapiens

<400> 1121

```

gtgatccctt cagattgaat taacgaaaag acaacacttc cagtttttgg attgggaaat 60
accttctaata tgagactata gccaaaccag ggccaaaatt atggatattg gtcacccagt 120
gatcataact aggcttgaaa atcactacac atattttctg ccttgagtga acatttttag 180
aggaaagggt atgccatctt tttaccctaa ccactgatat tctggtttagc agggccagga 240
caaggggaag gaaaatgagg tcaacaaaaa aatcaaatat ttaggaaaag ataagatgaa 300
tgttactgat ttttctttt ggctgaggct gcaatatggc ctggcaaggc actgktactg 360
atcttgkctt taacattttg atattttggt catcataatt tttgcattta tttttttaa 420
tattgcatta aaatatcatt tagcttgatt atcgagtttt ttggtttgag gttttttgtt 480
gcttcttttt tcttttcttt ctttccccct cttttttttg gatgtccct taaattttgt 540
cccaaggcag gtacctcact catctcatcc ttggctcagc cctgctgggt agtatattagt 600
atatttttta gtaagatatt tgtgtctgta tgatggctcag agttgaactg atctggcttg 660
tcatttttca gtaataaaaa aagttactga atttaaaaaa aaaaaaaaaa aaaaaaaaaa 720

```

721

aaa

723

<210> 1122

<211> 782

<212> DNA

<213> Homo sapiens

<400> 1122

```

tttattctca gaagacttac tatgaatgag ctaaatagtg tttcagatct ggatcgttgc 60
catttatacc tgatggtggt aactgagctt ataaatctgc atttgaaggt tgggtggaaa 120
aggggtaacc ctatctggag agttatttct cttttgaaaa atgcatccat tcagcatctt 180
caagagatgg acagtggaca ggagccaaca gttggaagtc agattcagag agtagtgagc 240
atggctgcct tggccatggt gtgtgaggcc atagaccaga agcctgagct gcagctggac 300
tctctccatg ctgggccccct ggaaagcttc ctttcctctc ttcagctcaa tcagacgctg 360
cagaagcccc acgcagagga gcagagcagt tatgctcacc ccttggagtg cagcagtgtt 420
ttggaagaat cgtcatcttc ccaaggatgg ggaaaaatag ttgcacaata tattcatgat 480
caatgggtgt gcctctcttt cctgttgaaa aaatatcaca cccttatacc aaccacaggg 540
agtgaaattc tggaaccgtt tctacctgcc gttcagatgc caataaggac tttgcagtct 600
gcactagaag ccctcacagt tctttcttct gatcaagttt taccagtgtt ccattgcttg 660
aaagtgttgg ttcccaactt ctgacttctt ctgaatcact ctgcatagag cttttgacat 720
ggctggaaaa tatactttct ttaagcacac tcagctgata ttctgggcta attaaaagct 780
tt

```

<210> 1123

<211> 768

<212> DNA

<213> Homo sapiens

<400> 1123

```

ctagttctag atcgcgagcg gccgcccttt tttttttaaa gaaacacttt ttatttttgaa 60
gtaattatag tctcatagga agttgcaaaa gtagtacata gagtccctga gtactcttcc 120
cccagtgggt acaactgtag tataatatca attctgggaa attgacattg gtacaatacc 180
aaatatacta tgcctttttc tctaaggcat gatgttgcag tagcatcctt gtacatgtag 240
ctaggagaac ttgtactaag cccagataaa tagttgaagt acaagggcra ggagtgtgtc 300
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aacactcagc ttttaacaaac atgcagattt ttgctgatgt gggagaaaaa attaattatt 480
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gaactgctca tgacctttgt ctacttttat ttgggtttac ttctttctca tttattccta 600
taaactcttt ataaaaggaa attaaccatt tgattgtcat atgttgtgaa tttttttacc 660
attttgactt ttgaatttat gtctttttta tgaattgtag aagtttaaaa tctttatgga 720
ataaatttat ttagtttttt gttaaaaaaa aaaaaagaaa aaagacaa 768

```

<210> 1124

<211> 274

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (52)

722

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (235)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (254)

<223> n equals a,t,g, or c

<400> 1124

```

agcaggccag gctccccctcg gcaaacctgt ctaattgggg cggggagcgg anttcctcct 60
ctgagggccg tgcgcgctgc cagatttggt cttccgcccc tgccctccgcg gctcggaggc 120
gagcggaagg tgccccgggg ccgaggcccc tgacggggcg ggccgggagcc ccggcagtc 180
ggggtcgccg gcgagggcca tgtcgctggt gggggacccg ctacaggccc tgccnacctc 240
ggccgcccc acangggccg ctgctcgccc ctcc 274

```

<210> 1125

<211> 1135

<212> DNA

<213> Homo sapiens

<400> 1125

```

aattcggcac gaggagctac ggaaggagg ctttgacccg gctattgtga aagaccgcgt 60
gttctatcta gatgcccaga agggccgcta cgtcccgcgt gaccaagagg cctacagccg 120
catccaggca ggcgaggaga agctgtgatt cccccatcc ctctgagggc cggcggatgc 180
tggatccgga gccccaggtt ccgccccaga gcggtcctgg acaaggccag accaaagcaa 240
gcagggcctg gcacctccat cctgagggtg tgccccctca tccaaaactg ccaagtgact 300
cattgccttc ccaaccttc cagaggcttt ctgtgaaagt ctcatgtcca agttccgtct 360
tctgggctgg gcaggccctc tggttcccag gctgagactg acgggttttc tcaggatgat 420
gtcttgggtg agggtaggga gaggacaagg ggtcaccgag cccttcccag agagcaggga 480
gcttataaat ggaaccagag cagaagtccc cagactcagg aagtcaacag agtgggcagg 540
gacagtggta gcatccatct ggtggccaaa gagaatcgta gccccagagc tgcccaagtt 600
cactgggctc cacccccacc tccaggaggg gaggagagga cctgacatct gtaggtggcc 660
cctgatgccc catctacagc aggaggtcag gaccacgccc ctggcctctc cccactcccc 720
catcctcctc cctgggtggc tgcttgatta tccctcaggc agggcctctc agtccttggt 780
gggtctgtgt acctccatct cagtcttggc ctggctatga ggggaggagg aatgggagag 840
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aggtaagatg ccgcagcccc tgccctccaat gtgctggttc agccggggca gtgcccattg 1080
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```

<210> 1126

<211> 446

<212> DNA

<213> Homo sapiens

<220>

723

<221> misc feature

<222> (435)

<223> n equals a,t,g, or c

<400> 1126

```
aattcggcac gaggacaaaa ccaattaaac cggtctctcaa atcagcagag gtggaattga 60
agacaggagg aaataattca aatcagggtt ctgaaactga tgaaaaagaa gacctgctgc 120
atgaaaaccg cttgatgcaa gatgaaattg ccagggtcag gctggaaaaa gacacaataa 180
aaaacaaaaa cctggaaaag aaatacttaa aagactttga aattgtgaaa agaaagcatg 240
aagaccttca aaaggctcta aaacgggaat ggggaaacat tagcaaaaac gatagcctgt 300
tatagtggac agcttgctgc tctgacagwt gaaaacacaa cgctccgttc cmaactggag 360
aagcaaagag agagcaggca agactggraa cagaatgcat cctaccttgt aggctgatgc 420
tgttcgttgt gttcnggttc aagtca 446
```

<210> 1127

<211> 573

<212> DNA

<213> Homo sapiens

<400> 1127

```
cctcatctct atggctctat ggctgtacat taggacctag aacagtggcc cattgctctt 60
agactggaac catgtccact aaaataaacc taagcagatg ttgtagacct agccccacag 120
gactgcattt agctgcttca gtgacacttt gatgaaagta tggagaagtg gagacattat 180
agataaaaata tatcaattcc cagagaaaaac tcttgactta aaaacttaac tgtagtaaat 240
atatcttttt caggtgatga attatttttt taaaaagggt tacatatagg aattctgcag 300
tataatttgg aggctattag tgctatatta atggaaatta attatttttt aagtaagtcc 360
aaaaaataat ctagaaagta agtttccaga gcaaatctga cctagcattt ggtatgctag 420
gctctgcttt tcatgatttt gaaataaatc ataattagac ttaacaatat ggagaaaata 480
aacttgtatt tttaagtgtt ctgttggctt attttctgtt tcatccaact caataattct 540
gataaataaaa tttgggttcta gtttaaaaaa aaa 573
```

<210> 1128

<211> 2229

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (872)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1968)

<223> n equals a,t,g, or c

<400> 1128

```
tcgacccacg cgtccgcccc cgcgctccgc tgacttctcc tcccggccag ttctcgagcg 60
cctcaccggg cctcgccctg cagcctcgct ctcgctggcg ctgcgcggcc taggggactg 120
ggctgctggc ctccgggtgc ggggtggggg caggctccga cctggggcgt cctggcagcg 180
cgagccgcgg gatgggggcc cgggcccgcg aggaggcgcc gctgctgtgt cccttggtgg 240
```

724

```

agagggcgct gccggccctg cgcggtttcc agccaggaag cttcgggaag cctggacgtc 300
tgctcactgg agatgacacg tgcgtggggg gttggcattc ttgttattta acacgggaag 360
gaggtgactt cgctgtgat ggacttccag tgtgagcact ggccagagtg accaggctga 420
ccagcaccag ccctgatcca gatgcagagg ccaggatgtg ggcccagccc tgtgccagga 480
ggctggctgg aataaaaggga tgggcaggct ggcattggggg cagccgctgc ccctgcctgg 540
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atccccgattc ttaagttctg ctattgtggt attctggtgg agaaaaaaga accgcgtggc 660
tgtttttgaa ctgcctggaa cctaagaccc tgaattcttt tccccccaa ggggaaaatc 720
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cagcaggtgg caccgaggc caccgtgcgc cgcttctct cgtgccgaat tcttgagcc 2160
cgggggatcc actagttcta gagcggccgc caccgcggtg gagcaccagc tttgttccct 2220
tagtgagct 2229

```

<210> 1129

<211> 949

<212> DNA

<213> Homo sapiens

<400> 1129

```

agctaccacc tcaagctttc aaccacattg ccaagttatg cagccttaaa cgacttggtc 60
tctatcgaac aaaagtagag attgaagact atgatgtgat agctagcatg ataggagcca 120
agtgtaaaaa actccggacc ctggatctgt ggagatgtaa gaatattact gagaatggaa 180
tagcagaact ggcttctggg tgtccactac tggaggagct tgaccttggc tggtgccaac 240
tctgcagaca scaccgggtg ttcaccagac tggcacacca gctcccaaac ttgcaaaaac 300
tctttcttac agctaataga tctgtgtgtg acacagacat tgatgaattg gcatgtaatt 360
gtaccaggtt acagcasctg gacatattak gaacaagaat ggtaagtccg gcatccttaa 420
gaaaactcct ggaatcttgt aaagatcttt ctttacttga tgtgtccttc tgttcgcaga 480
ttgataacag agctgtgcta gaactgaatg caagctttcc aaaagtgttc ataaaaaaga 540
gctttactca gtgacttaat atatgttctg tattaataat aatgtgcttt gttggggttt 600

```

725

```

aatTTTTgga ttggttttgg gttttgtttt tagttgtttt aatggtaaga attaagacat 660
ttgtagattt taaagaaaaa tatgaaattg tccattaaat caagtaaaaa tgtgcacaaa 720
tgttttcata aaatactgca agcacttctc ttcaagaata tgagtggata ttatTTTTac 780
cttatgttaa tcagtgatat gctttagtca ataatatgat tgataaaaaga ataacatgga 840
atcatgctaa cttatTTTTca aaggaacact gagcaataaa gtatcgtggc atttatgcaa 900
aaaaaaaaagt taatTTTTta caccttcacg taaggatgtc ttattaaag 949

```

<210> 1130

<211> 1418

<212> DNA

<213> Homo sapiens

<400> 1130

```

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gccatacaga attgtgtatt caccagcatc atgaaacagt tgtggtcttt tgagtgtgatc 180
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tctggccaga ggggtgttgg agcccagccc acccacatac cagtcaagct cttaggggag 420
cagaagaaaa gcaggaagaa tttaaatgtt taatTTTTtt tttaaattga cttttctagt 480
tattaaagt tgcttgtttc agcagtgata ttgtataaag aacatcttgt aagatactcc 540
tgacatcttg ctttagcaca tgtacagtac agtttctatg ataatgtgtt tgccttaact 600
tccttggtt ctccttcagc ccatccactc tcctctagag cagttgggtt ggaggetcat 660
tgaggcaagc agcaacattg gagggggagc agggcagtg tgtgtctgct gcctcccatg 720
cccgttctga cctcagcctt ggaactcctc aagaacctga agattccagt ggtcagtgtc 780
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gattttgata aaagtacaaa acagggtttt tcttttttat cacctttgaa tttggaaatt 960
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aacatgagaa tcaagcctct taatTTTTaa ctgcggaatg tggcctctgc ttcctccgtc 1080
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acacctgaat tgtttgttgt tgtttttttt ttttattgtc ttcaaagagg aaggggccca 1320
ttaaagggtg aacttgtaat aaattggaat ttcaaataaa cctcatgtac ttgtgtttat 1380
aaagaaraaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1418

```

<210> 1131

<211> 1662

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1656)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1661)

726

<223> n equals a,t,g, or c

<400> 1131

```

aacacatcag wactcataca ggagaaaggc cctttaagtg tcccttcgaa ggctgcgggc 60
ggtccttttac aacatcaaat atcagaaaag tgcacgttag gacacacaca ggagaaagac 120
cttattactg cacagagcca ggatgtggga gggcatttgc cagtgcaca aattataaaa 180
accatgtgag gatacacaca ggagaaaagc catatgtttg tacagttcct ggggtgtgaca 240
aaaggtttac agaataattcc agtttgtaca aacatcatgt tgtccacact cattccaaac 300
cttacaactg taaccactgt gggaagacat acaagcagat ctccacgctg gccatgcaca 360
aacggacagc ccacaacgac actgagccca tcgaggagga gcaggaagcc ttctttgagc 420
cgccccagg tcaaggtgaa gatgttctta aagggtccca gattacgtat gttacagggtg 480
tagaagggga cgacgttggt tctacacaag tagccacagt aaccaatct ggactgagtc 540
aacaagttac actcatatcc caggatggga ctacagcatg caacatatct caagctgaca 600
tgcaggccat tggcaacacc atcacaatgg taacgcagga tggcacgccc atcacagtcc 660
ccgccccatga tgcagtcac tcctcagcag gaacgcactc tgttgctatg gttactgctg 720
agggtagaca agggcaacag gttgcaattg tagctcaaga cttggcagca ttccatactg 780
cctcatcaga aatggggcac cagcagcata gccatcactt agtaaccaca gaaaccagac 840
ctctgacctt agtagcaaca tccaatggca cccagattgc agttcagctt ggagaacagc 900
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ttgaataatt tatagtttcc catccctgtt aaaaaccagc tcttcaagct gaaatgctaa 1560
ttatattggc attacattga attatgtaca aaattataaa atttggttat ttaaaattaa 1620
aaagttaaat ccaaaaaaaaa aaaaaaaaaa aaaaangggg ng 1662

```

<210> 1132

<211> 387

<212> DNA

<213> Homo sapiens

<400> 1132

```

ggcacgaggt ttttaaagat agggctcctgc catgttgccc aggcttgact tgaactccta 60
ggtcaagtga tctctccatc tcagcctcct gagtagctgc gactacagga accagccacc 120
acacacccat gtccaccac cttagggtta atctttgtta ctagccctca ctactcagaa 180
ttgggtgagac ctctccattt ctgcttcact cagcttacgt ggtttgctca cactgacacc 240
aacaacacc tgtcaatccc tatgtccctc ctgtcttcca aaaataccta gaaattgctg 300
ctctattgac ggtagtattt cttgttttct agtgttgcta ttatttgtct attgtactcg 360
gttttgcatt ttagtcacct gaatgtc 387

```

<210> 1133

<211> 82

<212> DNA

<213> Homo sapiens

727

<400> 1133

tcgacccacg cgctccggttc tagatcgcca gcggccgccc tttttttttt ttttaaactg 60
ttctgcactg gcaaaaaaaaa aa 82

<210> 1134

<211> 806

<212> DNA

<213> Homo sapiens

<400> 1134

ggagaccaga gtgggaggaa ggccggggagt ccaggttccg ccccgagacc gacttcctcc 60
tggtcggcgg ctgcagcggg gtgagcggcg gcagcggccg gggatcctgg agccatgggg 120
cgcgcgcgcg acgccatcct ggatgcgctg gagaacctga ccgccgagga gctcaagaag 180
ttcaagctga agctgctgtc ggtgccgctg cgcgagggct acgggcgcat cccgcggggc 240
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acctacggcg ccgagctcac cgctaactgt ctgcgcgaca tgggcctgca ggagatggcc 360
gggcagctgc aggcggccac gcaccagggc tctggagccg cgccagctgg gatccaggcc 420
cctcctcagt cggcagccaa gccaggcctg cactttatag accagcaccg ggctgcgctt 480
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gatgagcagt accaggcagt gcgggcccag cccaccaacc caagcaagat gcggaagctc 600
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gagtcaccagt cctacctggg ggaggacctk gaggcgagct gaggtccttt cccagcaaca 720
ctccggtcac ccctggcaat cccaccaaact catcctgaat ctgatctttt tatacacaat 780
atacgaaaag ccagcttgaa aaaaaa 806

<210> 1135

<211> 639

<212> DNA

<213> Homo sapiens

<400> 1135

gagctgaagc tgctgtcggg gccgctgcgc gagggctacg ggccgcgcgc acgccatcct 60
ggatgcgctg gagaacctga ccgccgagga gctcaagaag ttcaagctgg tcagcttcta 120
cctggagacc tacggcgccg agctcaccgc taactgtctg cgcgacatgg gcctgcagga 180
gatggccggg cagctgcagg cggccacgca ccagggtctt ggagccgcgc cagctgggat 240
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tgcgcttata gcgaggggtc caaacgttga gtggctgctg gatgctctgt acgggaaggt 360
cctgacggat gagcagtacc aggcagtgcg gccgagccca ccaaccaag caagatgcgg 420
aagctcttca gtttcacacc agcctggaac tggacctgca aggacttgct cctccaggcc 480
ctaagggagt cccagtccta cctggtggag gacctggagc ggagctgagg ctcttcccca 540
gcaacactcc ggtcagccct ggcaatccca ccaaatcatc ctgaatctga tctttttata 600
cacaatatac gaaaagccag cttgaaaaaa aaaaaaaaaa 639

<210> 1136

<211> 442

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (427)

728

<223> n equals a,t,g, or c

<400> 1136

```

gtccggaatt cccgggtcga cccacgcgtc ccaaaaaaaaa gcaaatgctg aaatcctatt 60
ggcaagtaa actgaaattg gctgctatat tttatataat ctttctgca aatccccattt 120
tttgaatact aatatttgac atgggttaatt cttattaatt tgttgggaatt gtttattggtt 180
aataatgcaa atagataaatt ttttaattatc cacaagtaac atttcactgt taatgggtttg 240
aaataggtga taagcaaacc aatttgaaat aaaatataaa catgtgccat tgtattataa 300
cactatacac tttcttgaca gttaaattta aaaaaaaatt ttttttggtg gcatgtattg 360
tatatgttta tagtatatgt agtaaataaa aatatggcca aaaaaaaaaa aaaaaaatta 420
ctgcggnccg acaagggaat tc 442

```

<210> 1137

<211> 673

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (647)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (652)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (662)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (668)

<223> n equals a,t,g, or c

<400> 1137

```

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aaagcaatca gctactataa caaatcagta grrataaccc tcccacacca gatatgcatg 120
cagaaggaat ggagtattat agagacttga tacaatggac atatgcacat ggaggtacaa 180
aacacacagt ctaaatacaa atgaattcca tcagatttac tatacggaac atcagtagtg 240
acagattgca cttcttactt aataacagca aacttaattt ctgaggggaa aaaaatggcg 300
aagtcttatc ccaaacaat agcaagagag gtatcatcaa gagctaaaat tttctttggc 360
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agtaatgcaa tgccattttg ttacataaag ttgtttgatg ttttttaata tgccttcata 480
taaatatttt attcaatatg ttgtatttgt gaatttaaca aatgatatta aacacaaaact 540
acaatgcaga caaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 600
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaggggnggc cnttttaaa 660
gntccaantt tac 673

```

729

<210> 1138

<211> 558

<212> DNA

<213> Homo sapiens

<400> 1138

```
gcccacgcgt ccgatcttcg agctgaagaa attgatccag tttactttga tcttcaccct 60
ggtcagggcc atacaaaacc tgaatactat tatcctaatt tccttccatc ccctttcagc 120
tcctgggacc tacgagatat ggccctgctt ctgaacgcag agaacaaaac ggaagccgtg 180
ccccgagtgg gaggacttct tgggaagtat atcgatagac ttattcagct tgagtggctg 240
caagtccaga ctgtacagtg tgaaaaagca aaggggggca aagcaaggcc cccactgcc 300
cctgggacct caggggcact gaaaagccct gggagaagta agctaattgc tagtgctctg 360
tccaagccac tacctcacca ggaaggggct tcaaagtcag gcccttcccg aaagaaagct 420
tttcaccatg aagaaatcca cccatcacat tatgcatttg agacttcccc tagaccatt 480
gatgtgcttg gtggtaccag gttttgttct cagaggcaaa cccttgaaat gaggcacaga 540
gaaaagaaaa aaaaaaaaaa 558
```

<210> 1139

<211> 789

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (59)

<223> n equals a,t,g, or c

<400> 1139

```
gatcatatgg taagcgtacg tttagttag tttttttttt tctttttttt ttttktttnc 60
yggggttaga agcyattcga aaagtcagc ttcygtccca gtgtagcaaa atgtagttcc 120
tcggttggtt ttcttttaaat gctttataat tttacactac ctttttaata tacaaacctc 180
attcttcatt ggataacttg aaggctttga tttcttttaa aattttaaat ttagtrtgta 240
tattactttg acagttccct catctttgag atgcactgat cactgtgctt gaaaaagaca 300
atactgaaga ttgtactatg aagtttattg aataattttc ataaattatt tatccaaatg 360
agagattttt agatttttgt attctgctta gtttttaaaa aaaaaaatag tagtttaaaa 420
gagaggctag taagtttgat gctattcttg ccaaacaaac tcagccaaaa tctttaaagt 480
aacaagaggg aaaaggatga ctaatcggtc tgcttctgag tacattttcc aaaacggttg 540
aaagaaactt ctgaattgaa atcttgaatg tattgaatct gtcaaggtag acagcggtag 600
ctttgtaaat gttcattact ttatttaatc aggtgataag tgggtgtaat tagcagagct 660
taagaataga actcaattat cactttttgt gaacaagttg gaattgtcat gttactgtgt 720
aattgatttg ctttacaaatg aacaataaat ttaataaaat aaaaaaaaaa aaaaaaggg 780
cggccgctc 789
```

<210> 1140

<211> 830

<212> DNA

<213> Homo sapiens

<400> 1140

```
ggaacacagt ttgtaagttc acatttacta taatgggcca aaaccataac ctgccagttt 60
gcaatacatc ttgatctttt aatattctta tctgatattg tgtaattcaa ttcctaaact 120
```

730

```

gatagttacc ttgaattttg cgaaaagggt tgggtgggtt tttttaaaca tgaaattgag 180
ggatctcatc tgggcgaaca agaagagaaa gctgtgaatt gtactgtatc atgtacattc 240
ctgatttaat actttacaga acatttttatt cagatatcaa tttgttacat aaacatttca 300
gcaatgatac aaagataact gataaaatat attacattca atgagggttt ctttacaat 360
gctctacttg aggtctgtgt cttaaagatg gcatgacacc taagtacaag acatcaactg 420
aatgaggatt ttaaaaaatg gtatataagc ataggacaag ggctatgttt gtttgttttt 480
caaaagtgct ttgaagataa cagccttttag gtttgagtta tttcactttt cataattttt 540
aagtagctta tatataatgg tgggtaccata ggatttttct ttttcaaag actgtcggca 600
gaaacagtgg gcactgactc accttttgag ttttagcaga gaattattta tttctttaca 660
atgcactttc taaccattg tagctatatt agcattatct tttaaaaaag acatgctttt 720
gtattttaa atgttaggat ttaagtgkct ttctcaaaat agcytattcc tttctgaaag 780
aaaaatgaggg aaatactctg aattattagg agacttaaac ccaatatatta 830

```

<210> 1141

<211> 1110

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1107)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1108)

<223> n equals a,t,g, or c

<400> 1141

```

catttaatac tggagtttagc cacatgtgat tagtggctat ggtattggac aggggaaggta 60
cagaatactt ccatcaacat agaaaattct atcagtctag ctctaggggc agatagtcct 120
tccactgact tgggcaagtc actctacaaa tggcatctac ctcacatggg tatggtgaga 180
attcagcgta tgtatgtaca tgcaggcaca caatatgcac acagacacat aacatagtac 240
accttttctt gaaaagcctg acacatggag ctcaaacaatg agtgccaccc acccctgggc 300
agcaccaaga tggctctagt ctgggtgcct ttgtctcacc cccatgcctt tgctcggagt 360
gtgctcctca tttttctgcc actttgaccc tgtctctgat ttggtcctgt ctgacatcac 420
tgctatatgc tttgctcctc tcaatttctt ctgccctcat gccagcagga gtcatgccag 480
agatcatatc tgagaaaagca agacaatttt gtgtgtgtgt ctgtgcccac agaggagtgc 540
tggttgtggt gatatagttg tagattgggt gtgtttacac agttgtatat attgacaccc 600
ttgagtgtta tgacttcttt tgggggtgggt cgccttttaa atcataactt ttaatgggat 660
tccatttttag tctttgtgaa gacataaggt tgttggcagg catctgtccc tgggagcatc 720
caagcagaaa agactaagac tccctttagt acagatcact ggccgccact gaagtgtgtc 780
tgcatggcac cacagggctg gaagaccctt gaaggcagga attcaaggaa atgtatgatg 840
aatttttgga ttgccatcaa aagcagaaca ggcattggaaa acttgggtga gtgggcgaga 900
caacctctc accacagcag agttccatcc atgcctggat aatgakggag ggatttgtgt 960
cactgcagt ggggaacctt gaaggacaca tcaaggggtg ggttggcctg tgggtgctct 1020
tggaggaatg aataaaaaatg aatagaaatc ctaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1080
aaaaaaaaaa aaaaaaaaaa aaaaggnntt 1110

```

<210> 1142

<211> 406

731

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (398)

<223> n equals a,t,g, or c

<400> 1142

```
gttaaaaaatg gaaagcagaa agtaactgca gtgatgaaca ttttggtcca aattcttggt 60
ttaaatctta cacctgaaag taaaatattg ggatcacttt tccctgtcta aactccagga 120
tacagtatcc aatttatcca aacagaactg tgggtgtcaat gtgtaattaa ttgtgtaaaa 180
tagccttccc aagtttcttt ttccctggaa aaataaaaaa ggtaatagaa cttgtagttt 240
tatgtaaaacc ccatgtcatg aggaggtact agttccaagc aacaaactcc ttaatttgct 300
ctaatagata ggtatggttt aatctttcca ttgtgtcttt tcatttaatt ttccctgaagc 360
ttgcaggata gattgaaatg ttataggttt gtttggantt aaccac 406
```

<210> 1143

<211> 421

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (413)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (418)

<223> n equals a,t,g, or c

<400> 1143

```
gcgctccttc acgcgctcgg cgactgcagc gggtnccgtg cagggtgaggg gcgcgcgcct 60
gccagcttt gcagccccg aacgcggcct cgcacagata cccagacaaa tggattctaa 120
aatttgaata gaagagcaaa gaaaatagga accaatttga aggactacaa ggtggactgc 180
ttgctcagct cagtatcaac acttatggag tcattgcagt ttccagtaga ggtgtacttc 240
tgagaagtgg cttcttgggt cttcatgcag ccatggatct ggatwaacca tctgtttggg 300
gctcattaaa acagcggacc aggccattgt tgatcaactt gagcawgaag aaggtgaaaa 360
agaacccaag taagcccca gatctacggg caaggcatca cttggaccgg cgnetcancc 420
t 421
```

<210> 1144

<211> 266

<212> DNA

<213> Homo sapiens

732

<400> 1144

```

aaaagtgtag ttatcgtaac atcaccttga aacaactttg ttactgggat acatttaatt 60
aagcaactac catgaatgta gtcggtacct tgccttacgt gcttcagtat atatgttggt 120
cttggttttat gtacaggcta aatttgkaga ttgaatagca gaatattagt tctgwtctta 180
tagggcctac tgstgtattc agagttatga agctacgttt cttctgcgtt tggctgcacc 240
atgaaatcct aagaagacct aaaccc 266

```

<210> 1145

<211> 725

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (173)

<223> n equals a,t,g, or c

<400> 1145

```

gcatnaaatg caagtataaa acattccaaa ttaaaataga atatgcacat tgttcaaagg 60
caaaaactctt accctactat atatatatta catccctcat tttttccccc tctaaaatgc 120
attggtattc aggattagaa tctgaatctt ttgctataaa gttgacatac atnggtttta 180
atcccttgaa agttcagtaa agacctaaaa ggaaaagcat cctaccacac cacactcatg 240
ttgtatgtgc aactattata gtggcttaga gacactagtt cgtgtttctt gtttctatat 300
tagtaaagat gttagaggaa attaatctgt ttgttgcatac agggtttaat gtgaccatgt 360
tgkataacta ttctgaaagg taagaagttt ttcactggag tacagtcact ggctgagaac 420
atttaagttt ttttttgaag catacacagt taacaactat tgcaggaaga actctgaatt 480
aaatttcagc cccagagttt tgattttaaac tccaaaccct tggaaaaaaa gactgctgga 540
aaatatgaaa gaacccttcg tttcttaacc cccacaagtc cttttattgc acttactttc 600
atgtatttga ggatgagagg agctttaaata caacaataat tctaagga ataatgcaag 660
gtggtctatt gtaacatttt atgatattat tgccctggaa ataaaagata ctgaacaatg 720
taaaa 725

```

<210> 1146

<211> 435

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (396)

<223> n equals a,t,g, or c

<400> 1146

```

cccacgcgtc cgcccacgcg tccggttcaa aattcaacag tgtatgtcat tgccttctct 60
atagggtagc agtcgtcctt cacactatca tgttttatgg gatgataact gctttactgc 120

```

733

```

agatgaactt cagctgctaa cttaccagct ctgccacact tacgtacgct gtacacgac 180
tgtttctata cctgcaccag cgtattatgc tcacctggtg gcatttagag ccagatatca 240
tcttgtggac aaagaacatg acaggtaata taaaagcata acaggttctc acccaaatcc 300
cmatattgtc tgcattgtag gattttcaak ttccacaagc tattaacgga rctmgygat 360
ccatgtkaaa aatgatgama gaactgactg cccaangatt cctatttgaa aatatattgg 420
tctaggtcca tttag                                     435

```

<210> 1147

<211> 533

<212> DNA

<213> Homo sapiens

<400> 1147

```

gtgttaatgt gtgtgtatgt gctttggttg taggaaaact tgaaaattcc aaaatcctta 60
ttttcctatt tgagaggctg gttcagcagg gtgtgtgtgt gtgtgtgtgt gtgtgtgtat 120
gaatggtata tttattacat ttttttgaaa gagaattagt gtgttatgtg gataatgtta 180
tatacagcca aagtggatgt ttctrtttgg caaggaagggt aggatttctg aaactcaggc 240
cttaaccaat aggttggaag acaagaccaa ttgaagaggtt aggaaatgtg agtttttgtt 300
acttctgtta ttccagtctt ggtttcattg tctcattctt tttttttaa atcttgtgcc 360
taaaagtttt tttgcttaat tatgaagtag acatgcatgt ttacatttat gtaaaatatt 420
tgctgtgtaa agtatttttt gtttattctc ttaaaagatc actatattta aataaaagtg 480
aaggtcagca acmcaaarar aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 533

```

<210> 1148

<211> 396

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (309)

<223> n equals a,t,g, or c

<400> 1148

```

tgacatggta gcgcacgcct gtagtcccag ctactcanga ggctaagggtg ggaggatcac 60
ttgagcctgg gaggcagagg ttgcagtaag ctgagtaagc caagatcatg ctattgcact 120
ctagcctgga tgacagagtg agaccttgtc tcaatgaaaa agcaggggggc actkggaggg 180
ggaaccaaatt gccctatcct ccagttctca gcatatagaa gggagctctc tcatctgcta 240
gccactcctg cctcactgtg ccatgctttc tgtaatgcac tctgggtcca gggactgctt 300
ggcaggagng tgggaagaac aagaagttta gggccttccc agtttcttag ggcctgtctg 360
gagaggggaac tagcgtttac tgagttttta cgatgt                                     396

```

<210> 1149

<211> 540

<212> DNA

<213> Homo sapiens

734

<220>
 <221> misc feature
 <222> (136)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (445)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (474)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (506)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (515)
 <223> n equals a,t,g, or c

<400> 1149
 gagaggaaaa ggaatgaaga aaaatgaata gatcttcaga tacctgtgag acaccctcaa 60
 gtgtgccaat gtatacctaa cgggagtccc agaagacagg agagaaaaaa agaaagaaat 120
 aaaaagaata tttganttta aaattgcttg aaaatgtctc aaatttgatg aaaaatatta 180
 ctctgcacat tcaacccatg aactataagt tgtataaaaat caaaaagttt cacaccaagg 240
 cgtgtcatag ccaaactgtc aaaagccaaa gacacagaat cttgaaagca gtgagagcaa 300
 agcagacaag ggatccccaat taggattaac agcagatttc tcatccagaa gccatgcaag 360
 cccagaaaagg ctatggggaga catactccaa aatgctgaaa taaaaactgt ccaacaaaca 420
 tttccccatc cccagcaaaa atccnaaaac aaaggaaaat cttgttgcat gttnaacctg 480
 aataaaattg gtttccccgc cgggttngttt ggatnaaaatt ttccccccct taatgttcca 540

<210> 1150
 <211> 1481
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (14)
 <223> n equals a,t,g, or c

<400> 1150
 agaggccttg cttngaaaca tccggggaga gttgggcagg ctgctcttta tggatgtggc 60
 tgctgggctg aaaatactgg agctcataac ccctactcca cagctgtgag tacctcagga 120
 tgtggagagc atcttgtgcy caccatactg gctagagaat gttcacatgc tttacaagct 180

735

```

gaggatgctc accaagccct gttgggagact atgcaaaaaca agtttatcag ttcacctttc 240
cttgccagtg aagatggcgt gcttggcgga gtgattgtcc tccgttcag cagatgttct 300
gccgagcctg actcctccca aaataagcag acacttctag tgggaatttct gtggagccac 360
acgacggaga gcatgtgtgt cggatatatg tcagcccagg atgggaaagc caagactcac 420
atttcaagac ttctctctgg tgcggtggca ggacagtctg tggcaatcga aggtggggtg 480
tgccgcctgg agagcccagt gaactgaccc ttcaggctga gtgtgaagcg tctcagaggc 540
atttcagaac ctgagctttt gggggttttt aactgaagtt ggttgtttta tctttcttgt 600
tttataattc ctattgcaac ctctgtcact gctcgagaca caagtgctgc tgtagttagc 660
gcttagtgac acgcgggcct ttggtgggtg agcgggactg tgtgtgagtg tgtgcgcgta 720
tgtgcgcaca tatgtgtatg tgtggagtat gtgtgtttgc ttctccgtgg atgaaataga 780
aactcctcat tgtgtgacca ggaatggtta aatcatcttt acaaaatgtg tgctttaact 840
gtttacaagt aaaacctaata gttgcaggaa acatttttta tttcgtaaag aggtaccaac 900
tgtcgtgat gtgatatgtc agaactgaag agtaaatact cttgttttaa tgacttgaca 960
gtggtagtgc tccatttaata aacagtaata agtaataaag tgtttttatt tggttaacca 1020
gtttaagtgg atcctgtggg aacttaaact gktgktctca tcccytatat ggggcatttt 1080
tctttaacaa agaatggttt cagtgaacaa atctagcaga gaattaatgt cagaaccttt 1140
ttaaataata gtctgattga tacagtttgt acttatttca tcaagctttt ctaagcttaa 1200
atattgcata gcttcgagct gtatggacta tattatgaaa gaatatgtaa agagaacata 1260
cagtaatgca cagtccttaa tttgtgtata atggaaagtt atttacaata taacactgta 1320
aataagaaaag caaagtttat gggaaaattc aatattatct ttgtttttgt ttaaataatat 1380
ttttaagata aaggcmcaaa aataaaagaa gcgtattact gggatatagta tgtgactcct 1440
cttctcagac taataaatta tcttttgaat ccttaaaaaa a 1481

```

<210> 1151

<211> 1092

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (216)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1083)

<223> n equals a,t,g, or c

<400> 1151

```

ctttaatttt gagtttaaac ccaagtttat tggcagactc ctttttgacc tccctttgcc 60
tccccatctg gtgctttctt gcactacac cccagggcc tgtggtgggg ctgcaggggg 120
aagctgtgca cctgagatga ggctggaacg ggaattggcc tctctgctcc cttcttcagt 180
aagcaaggag ccccgccctt caggcccagc ctctgnmaag aggtggtgga atccttgtgc 240
cgggtagtag aggaggataa gggcaaaacc aggccaggc cagtgcctgc ttggtctgga 300
tgggacactg tcagagtttg gccacagcct gtcctttact tcatccacac ctatgaagct 360
attccctaaa taaggcattt cccaagttag tcgctaccta atcagccttg agaagaatcc 420
tttctctctt tttgatagtg ggtcggggga ttcttcagga atggtttgga gctgggagtg 480
ggtagggggg ttttaaattg tccatatggg agcccaaaag gaactggatg ggctgcagtg 540
aggtgggggc ggggtgggcag ggaatgggag aggggaagtc ttggcaggga aatccctttt 600
ggccacacag tttacaaacc cagtatcatg tctgtctgtg tgtctctcaa ggtgagagtc 660
tgattttttat accaaagagg aaatgatttt ttttcatatt ttgtttgtct atattatata 720

```

736

```

aatatatata tacagttata tatatatata tattatTTTT tggttctctc tcgtttttta 780
gggaggggaag aaagtaccaa gttgcattga gctgtaatta aggaacatta taatttatga 840
cacatttcta tacttgcaaa aattatatca ttttatggat ataagagaaa aatgcctttt 900
tataaaattt caatttctga raagtgtgta atttgtctct tttctgatgt ttaaccaaga 960
ctggtggtga aagtaaagac agaaactgtc tcttaaaaaa aaaaaaaaaa aaaaaaaaaa 1020
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1080
aangggcggc cg 1092

```

<210> 1152

<211> 534

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (282)

<223> n equals a,t,g, or c

<400> 1152

```

gcggcagtga gcattctggg tctttgatga tggatgagtc ttcacttgta aatttaaagc 60
catatgtatt aacttagttt ccttccaggc atttagtatt agtgaatatc acatacggct 120
ttataatgct ccaataacag atgcctagtt gcactttgat ttaatatatg ctgggagaaa 180
agatatatga gaatttcact ataatttttt gcctagataa taggtcagaa gggttctatc 240
ccacctggaa ggtaaaaagga ttgggtctta ctgatttctt gnacttctct ctggatttta 300
tgaagtctat gctatctttt tcccagaagc attaagtttg aagactcaat caccaagtgc 360
aatcaaagct acctttyctc cccccaaaat taaatagaca tktttaaaca cacatacaca 420
tttcaagatc aacagaritc ccttttgagc atggaaaatag agccattgct aaattacgtt 480
actggactga actccaggta ttaatttcag tgggaaaatt aagaaatggt agga 534

```

<210> 1153

<211> 401

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (386)

<223> n equals a,t,g, or c

<400> 1153

```

gntttcaccc ccgcccctc tacaagatgc nggggccact taaactacgc ggaggacgcc 60

```

737

```

cagctcatcg cccaggccat tggccaggcc ttcgccgccg cctacagcca gttcctacgg 120
gaaagcggta ttgaccccag ccagggtgggc gtgcacccga gccaggcgc ctgccacctc 180
cataatgggg acctggacca cttctccaac agtgacaatg ccgggagggtg cacctcgaga 240
agcggcgagg ggagggcctg ggcgtggccc tgggtggagtc gggctggggc tccctgctgc 300
ccacagccgt catcgccaac ctgctgcacg gggggcctgy tgagcgytcg gggggccctca 360
gcatcgggga ccccttgacc ggcataaag gggaccagcc t 401

```

<210> 1154

<211> 1107

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1092)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1094)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1101)

<223> n equals a,t,g, or c

<400> 1154

```

ctgacctcgg gtgatctgcc tgccttggcc tcccaaagtg ctgggattgc aggtgcaggc 60
caccacaccc ggccttgggc cactgttttc aaagtgaatt gtttgttgta tcgagtcctt 120
aagtatggat atatatgtga ccctaattaa gaactaccag attggatcaa ctaatcatgt 180
cagcaatgta aataacttta tttttcatat tcaaaataaa aactttcttt tattttctggc 240
ccctttataa ccagcatctt tttgctttta aaaatgacct ggctttgtat ttttttagtc 300
ttaaacataa taaaaatatt tttgttctaa tttgctttca tgagtgaaga ttattgacat 360
cgttggtaaa ttctagratt ttgattttgt tttttaattt gaagaaaatc tttgctatta 420
ttattttttc caagtggctt ggcattttta gaattagtgc taataacgta acttctaaat 480
ttgtcataat tggcatgttt aatagcatat caaaaaacat ttttaagcctg tggattcata 540
gacaaagcaa tgagaaacat tagtaaaata taaatggata ttcttgatgc atttaggaag 600
ctctcaattg tctcttgcac agttcaagga atgttttctg aattttttta atgttttttt 660
tttttttgaa agaggaaaac atacattttt aaatgtgatt atctaatttt tacaacactg 720
ggctattagg aataactttt taaaaattac tgttctgtat aaatatattga aattcaagta 780
cagaaaatat ctgaaacaaa aagcattggt gyttggccat gatacaagtg cactgtggca 840
gtgccgcttg ctcaggaccc agccctgcag cccttctgtg tgtgctccct cgtaaagttc 900
atttgctggt attacacaca caggccttcc tgtctggctg ttagaaaagc cgggcttcca 960
aagcactggt gaacacagga ttctgttggt agtgtggatg ttcaatgagt tgtattttta 1020
atatcaaaga ttattaaata aagataatgt ttgcttttct aaaaaaaaaa aaaaaaaaaa 1080
aaaaaaaaaa ananaaaaaa naaaaaa 1107

```

<210> 1155

<211> 619

<212> DNA

738

<213> Homo sapiens

<220>

<221> misc feature

<222> (563)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (597)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (615)

<223> n equals a,t,g, or c

<400> 1155

```

atctttccat atttactgag tttaaatgaa tcatctcaga gagaaaagaa aaactaaata 60
trgaaaagtg catggcagaa gctgaaatga gctcaagcag tactaacctt ggaaccattc 120
tgggtaccca aaagaaaaat ttaaaatcaa gatgagtaaa aggagaatgg tctcaatata 180
ctcaaaaatg cagtaagaga agtaattccc cactgaaaat gtctctcttt ctttctatgt 240
tataccctgg agtcctgggt gaggggtggg ggaatcagaa aagtaggttt acatttaaca 300
tttttcttaa ctacattcac ttcttaaaaa ggaacaagaa gtgtaaataa gtatgtatag 360
agtgagggat taagcatatt tgcattgggg actcgtgtat tatgctttta agtcaaaatt 420
aatattctca aattcgaatt tgatagctat tatttctaaa tctttttaat cctcaatttt 480
cctggtaacc ttctttcaag agtctccttc ttctaaaagt tgccaaaccc tttatatatta 540
agcttttttc actcaggact canttagagt ggcaacaggg aaagggatgg tcccatntga 600
actttgccac tgacnaaac                                     619

```

<210> 1156

<211> 531

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (78)

<223> n equals a,t,g, or c

<400> 1156

```

aattcggcac gagcaaagaa gctgctaaca gatggactga taacatatctt gcaataaaaat 60
cttgggctac tttatttntct tggcgtatctt cttccacaac ttgcggatca cagtctttgt 120
ggaagaaata cgccaagcaa ataaagtagc caaagaagct gctaacagat ggactgataa 180
catattcgca ataaaatctt gggccaaaag aaaatttggg tttgaagaaa ataaaattga 240
tagaactttt ggaattccag aagactttga ctacatagac taaaatattc catggtgggtg 300
aaggatgtac aagcttgtga atatgtaaat tttaaactat tatctaacta agtgtactga 360
attgtcgttt gcctgtaact gtgtttatca ttttattaat gttaaataaa gtgtaaaatg 420
cagatgttct tcaccctttt tggtagaaca aaagcaggat gataaccata tccccccagt 480
gctcatcaaa gtaggacact aaaaatccat ccatctcagt caaagtcgag c 531

```


739

<210> 1157
<211> 826
<212> DNA
<213> Homo sapiens

<400> 1157
gggtcgaccc acgcgtgtgg cactcggcgg tcgaaagggg agttcaagga gacggggggcg 60
acgcggctga gggcttctcg tcggggtcgg ggctgcagcc gtcatgccgg ggatagtgga 120
gctgcccact ctagaggagc tgaaagtaga tgaggtgaaa attagtcttg ctgtgcttaa 180
agctgcggcc catcactatg gagctcaatg tgataagccc aacaaggart ttatgctctg 240
ccgctgggaa gagaaagatc cgaggcgggtg tttagaggaa ggcaaaactgg tcaacaagtg 300
tgcttttgac ttcttttaggc agataaaacg tcaactgtgca gagcctttta cagaatattg 360
gacttgcatt gattatactg gccagcagtt atttcgtcac tgcgcgcaaac agcaggcaaa 420
gtttgacgag tgtgtgctgg acaaactggg ctgggtgcgg cctgacctgg gagaactgtc 480
aaaggtcacc aaagtgaana cagatcgacc tttaccggag aatccctatc actcaagacc 540
aagaccgatg ccagccctg agatcgaggg agatctgcag cctgccacac atggcagccg 600
cttttatctt tggaaccaagt aaagatgggt ccgtggccca cactcgggtca tgtgtctcaga 660
caacgactga tgaaaacgcc catgcggttt gcactgactg atagtgtgtt ctttccggga 720
tcacaaacat taacaaaaaa gttaacttat gtgacttggc agttattcta taccatttcc 780
tgtccattaa aattttttaa ggaaaaaaa aaaaaaaa aaaaaa 826

<210> 1158
<211> 614
<212> DNA
<213> Homo sapiens

<400> 1158
ggcctcttca cgcgtttccc gagggccggg gcacgaccct gcggctcccc gccacgaca 60
ccccggggc cggcgagtg cagctgctgc tctcggactg cccccagac cgcctgcgcc 120
gcttctctcg cacattgccg ctcaagctgg ctgcggcccc gggtcccggc cggcactccg 180
cccagcgca cgtgtggggc ccgcggccgc gatcttcgtc accatcagcc ctgtgcagcc 240
cgaggagcgg cggctcaggg cggccacccg ggttccggac actacgctgg tgaagcggcc 300
tgtggagccc caggctgggg cgagcctagc acagaagccc caaggtggcc cctgcctgtg 360
aagaggctga gcttgccctc caccaagcca cagctttctg aggaacaggc tgctgtgctg 420
agggcgcgtc tgaaaagccag agcatcttct tcaactggag tgcaggaaca gggaaagtc 480
atctgctaaa gcgaatcctg ggctcactgc cccccacagg cactgtggcc actgccagca 540
ctggggtkgc agcctgccac atcgggggca ccaccctcca tgcctttgca ggtaagtagg 600
aaccctaggt gctt 614

<210> 1159
<211> 594
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature

740

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (62)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (111)

<223> n equals a,t,g, or c

<400> 1159

```

gcancagtga caccnaaccc tcactaaagg gaacaaaagc tggagctcca ccgcggtgca 60
gnccgctcta gaactagtgg atcccccggg ctgcaggaat tcggcacgag ngagagaact 120
agtttcgagt ttttyttttt wtttttttca tgggtaacaa cgtttattaa aatctggcca 180
ttttctacat ctcaaagagg agataaccca ccagaggctt aggtaacata attgtgttta 240
acgtaaatat acacagatac caataggcgg ttaagccatg ggacagggcc gcagatggag 300
actgctcaag gtcaaagggg tctccagctg ggaccctgca cctggttcgt agcccctctg 360
cagacgcaca gtgcctcacg cctgctgcaa cctggaacct tgaggccttc atgtcagtgc 420
aggacaagag tcatgtctgt ccatagattg gggctggaaa ggactttctg ccactggagc 480
ttcgattgtg agcatgcatc cccgccaaca gctgtgtctc cctttgaacc aagtctggtt 540
cctccaagca agcggkcggt cattccaaag agggcctgat cccagacagt taac 594

```

<210> 1160

<211> 359

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (330)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (350)

<223> n equals a,t,g, or c

<400> 1160

```

aggaaactctg gtctccttgc ctagtgcttt tcaaaactct gtgctacaca ggagtggatc 60
caggcctgaa ggtcatacaa ttctggggac tctctttaag aaaaagaatt ctaaaatata 120
ttacttttgc aaacattayg aaaatatact gccacattaa tatgttgcta gggcccctgc 180
taggacctta agaaggagct catgtgagtc aggacctga atgttaggcc tcgttagctc 240
tatggttcat atgcttcttg aaccaagtca cagggcactt cccagccaca ttgccaggca 300
acaggactaa actacctcca aagcaagcan tcttttcagt tttgactgan tgatgttga 359

```

<210> 1161

<211> 633

<212> DNA

741

<213> Homo sapiens

<220>

<221> misc feature

<222> (593)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (606)

<223> n equals a,t,g, or c

<400> 1161

```

ttcctttttt tttttctcca gatccacgt ttcgctcttg ttgcccacag ctacttactt 60
cattccccat gggtcacgtc attcatccac attaaccaat ttcctcactc caagctcttt 120
tctagagata atctccagtc cctgtgcaga aactgtcatt gcactttctg ctgaaatggc 180
agtttcttct cagcaagggtg agattatgga atccagaatc ttttttcagg ggtcacatgc 240
ccatttcccc acttgcatga atgtcgacac tgcagccaca gttttggccg taaatgtgaa 300
tttggaagt aaccactgtt cccagggaat tgtcccaatc agaagaagat tatctgggac 360
actgatactg acaggggagat gggacattct gagggacccg gaggcagggt gccacctctt 420
caacttccct gagggctgcc taggaatctg tttcctcttc attctggaat tattcttctt 480
ctttatgggc tgacacaaaa catgggaacc ttcacaaagt ccactgttaa cagcttttwt 540
ttttgtggar gtkgarggac atggaggacg tttttaaggc caaagtttat ttngagttgg 600
ggacantttt gtgggttttt ttttttgagg aag 633

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<210> 1162

<211> 1422

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1421)

<223> n equals a,t,g, or c

<400> 1162

```

aattcggctt tcgagcggcc gcccgggcag gtactttctt actgagccct ctattttctt 60
tattttaata atatttctcc ccacttgaga atcacttggt agttcttggt aggaattcag 120
ttgggcaatg ataactttta tgggcaaaaa cattctatta tagtgaacaa atgaaaaataa 180
cagcgtatth tcaatatttt cttattcctt aaattccact cttttaacac tatgcttaac 240
cacttaatgt gatgaaatat tcctaaaagt taaatgacta ttaaagcata tattgttgca 300
tgtatatatt aagtagccga tactctaaat aaaaaatacca ctgttacaga taaatggggc 360
ctttaaaaa atgaaaaaca aacttgtgaa aatgtataaa agatgcatct gttgtttcaa 420
atggcactgt cttyttttca gtactacaaa aacagaataa ttttgaagtt ttagaataaa 480
tgtaatatat ttactataat tctaaatggt taaatgcttt tctaaaaatg caaaactatg 540
atgtytagtt gctttatttt acctctatgt gattatthtt ctttaattgt atthtttata 600
atcattatth ttctgaacca ttcttctggc ctcagaagta ggactgaatt ctactattgc 660
taggtgtgag aaagtgggtg tgagaacctt agagcagtggt agatttgcta cctggctctg 720
gttttgagaa gtgcccctta gaaagttaaa agaatgtaga aaagatactc agtcttaatc 780
ctatgcaaaa aaaaaaaatc aagtaattgt tttcctatga ggaaaaataac catgagctgt 840
atcatgctac ttagctttta tgtaaatatt tcttatgtct cctctattaa gagtatttaa 900

```

742

```

aatcatatatt aaatatgaat ctattcatgc taacattatt tttcaaaaaca tacatggaaa 960
tttagcccag attgtctaca tataagggtt ttatttgaat tgtaaaatat ttaaaagtat 1020
gaataaaaata tatttatagg tatttatcag agatgattat tttgtgctac atacagggtg 1080
gctaattgagc tctagtgtta aactacctga ttaatttctt ataaagcagc ataaccttgg 1140
cttgattaag gaattctact ttcaaaaatt aatctgataa tagtaacaag gtatattata 1200
ctttcattac aatcaaatta tagaaattac ttgtgtaaaa gggcttcaag aatatatcca 1260
atTTTTaaat atTTTaatat atctcctatc tgataactta attcttctaa attaccactt 1320
gccattaagc tatttcataa taaattctgt acagtttccc ccaaaaaaag rgrtttattt 1380
atgraatatt taaagkttcy aatgkgggtw ttaataagg nt 1422

```

<210> 1163

<211> 513

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (488)

<223> n equals a,t,g, or c

<400> 1163

```

ggttatacct tggcgggacgt gntctgcaaa ctrggagaaw gatttgcact ayctaamcct 60
rracaccygg acttggtctg gaaggattac tattaatgga gaaagcccaa aacatcggtc 120
atggcactact ttaacaccta tagctgatga taaacttttc ctatgtggtg gactaagtgc 180
agataatatc ccattaagtg atggttggat tcataatgtc acaacaaatt gttggaaaca 240
acttacacat ttacctaaaa caagacctag gttatggcac acagcctgtt tgggaaaaga 300
aaatgaaata atgggtatttg gtgggagcaa agatgactta cttgccttgg atacagggtca 360
ctgtaatgat ttattgatct ttcaaacaca gccttattca ctactcaggt catgccttga 420
ctgcattggg aaaaattcta tcatgttaga aagtcagata tctttattac ctccctaaact 480
tctgcaanaa gtactcaaaa aaaaaaaaaa aaa 513

```

<210> 1164

<211> 577

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (21)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

743

<220>
 <221> misc feature
 <222> (59)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (74)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (137)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (546)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (549)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (577)
 <223> n equals a,t,g, or c

<400> 1164
 ggtcccaagg ggtttacccg naatgtgaaa gcccnaagt gaatgaaacc tcaaattgnc 60
 ccctgtatgg cctnaagaag cccccaagtt cccagtggt tcccaagtgg gcaagtgtaa 120
 ttggaatggg gcccncnccg atgcccnaatg gagaatgcca aactgcccag gacaaatcca 180
 gatgaagaaa gaaactgtga agtgcctttg tttaaattgg atcagttccc gctgtgcca 240
 atggtcagtg catttgaaaag cacaagaagt gtgatcataa tgtggattgc agtgacaagt 300
 cagatgaact ggattgttat ccgactgaag aaccagcacc acaggccacc aatacagttg 360
 gttctgttat tggcgtaatt gtcaccattt ttgtgtctgg aactgtatac tttatctgcc 420
 agaggatggt gtgtccacgt atgaagggag atgggggaaac tatgactaat gactatgtag 480
 ttcattggacc agcttctgtg cctcttggtt atgtgccaca cccaagttct ttgtcaggat 540
 ctcttncang aatgtctcga ggtaaatcaa tgatcan 577

<210> 1165
 <211> 665
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (8)
 <223> n equals a,t,g, or c

744

<220>

<221> misc feature

<222> (395)

<223> n equals a,t,g, or c

<400> 1165

```

cttttttntt tttttttttt tttttttttt tttttttttt tttttttatg taaactatca 60
aatgtttatt taaattttcca tttaaaatat tttcaagtaa aatatgtaca aaaatggtta 120
taaaatgggt gaagcaacta gaagcgtgac aggtataata catataaata caacccaaaat 180
tcaattcaat gcaaagttga atgacatcat attgcaccaa aattttattcc atacaaaagc 240
acatgcatca agagttttcca taagatgaaa acaaacacac ttacttcata gcatcttacc 300
acttacttac acaaatagcc cataaacacc atctggcatt gtgattgcag taccagaact 360
ctccccagag ggrraactcat ttagctatag aagantccat tttatttcac atatcacatg 420
cttgtgcagg catcagtygt aggaacctta agaaacaacg caatccacag atgaaagtct 480
ctctgcacca tttatatytt catagataaa tatcttagtt ctaatatgat tggaatgtgg 540
atgcagaaat aaaatgcagt tttgtctctt aagaatttta tcaatgtaag acattgtatt 600
aaatttgtat aaaatacaca caatccccct tactaagttt catgatcaca gtgccagagt 660
gaagc 665

```

<210> 1166

<211> 1077

<212> DNA

<213> Homo sapiens

<400> 1166

```

acagaaagta acaaagagga atgagccagg agaacaaact aattccttta aataaataaa 60
waaaaaaaaat gcaaatgtcc ttcaccagta aagcaagcaa attttttaaaa tctctgtttt 120
tgaaatctac tcgtcaaaga gttttcagag gcaatgaaaag gggaacagat ttttcattgt 180
aatagtggaa gttgtgtgat agttaggaga tatcaacatg cattttttaat cttttcctta 240
gatgaaagag atggccttttg gcagtgtgtt ctaaccagaa agaaaggatt tgtattactc 300
tccaaatcta ctgtactgtc agcttctactc cacctgagaa aaaagaaaaa aaaattgata 360
gctcaaatgc atgtaattca taaacactgc aaaggagagc cacttggtgt ctgcagtcct 420
catattaaca gtctgtcaca gaatgcagtt aaagtattga ttggcatatg gtaatagagc 480
aaccatagcc ttaacttaca gacctgtgaa ataaagggca ttttgacctc atacaattaa 540
ttttctggat aactcttaaa gagaaagtcatt ttttaactgtt tttgctactc catatatattgt 600
cattcaaaat atatttttaac ccaaaaataag ttaataaatt tgtgcatgtt tgtgtgtgta 660
tatatgcata cactttttta tattaataatt ttgaggctat acagccactg tgccctgtgg 720
aataaagcca tatatataaa tgttttatat gtatatgttt tatacatawa taaaacattt 780
catctaatat atatatgtgt gygtgagtat atgtgtgcat gtttagcaga tatttgtata 840
aaatataaac actctgttgt catatwggct atatgcgaaa ttgttaattt taaaataaacc 900
tcaggccaca gacttgtagt aatcatttga aggcctcacc tagtgtcccc ttggtgacgt 960
atgcagcagc tcaaattaaa cctttgtgca ttgggttatg aataatcttt tcttccaaaag 1020
atggcaaaag cctcggtttg atttgatact aaagaataaaa tttctctgac tttcaaa 1077

```

<210> 1167

<211> 1177

<212> DNA

<213> Homo sapiens

<400> 1167

745

```

ggcagagctg acgttcccc cagcttagac cctgagtcgt tttccccgt ttcccggctg 60
aattaggttc ttcttctcca caggtgtgtg cagtggcctc agggatccgg aaagtctagg 120
actgaacttc tctaacatc cagtaatggg gacctggaac ctgggcgtac tagagtgcg 180
cgcgtagggc tccaggtegc tggcttctgc gctttcttcc tctccaaagt tgagtatctc 240
ctatctgtgt cctcatacat actgccgcct gaggtgccat ggcccccaag ccggggggcgc 300
agtggagcac agccctgtcc catctggtgc tgggagtggg gtctctgcac gcagccgtga 360
gcacagccga ggcaagtcga ggggctgctg ctggcttctc gctccaggtc ttggctgcca 420
ccaccacgct ggccccaggg ctgagcacac atgaagactg ccttgctgga gcctgggtgg 480
ccaccgtcat cggccttccc cttctggcct tcgatttcca ctgggtgaat ggggaccgct 540
cctctgccaa cctgtcctg ggaggaggca tgggtgctggc agtggctggc ggccacctcg 600
gccctgaggc cktctgtggc tggtcaggca atgctgttgg tggtcgcagt gaccatcctc 660
attgtagctg tcttcacggc caacacttat gggatgtggg ggggggcgat gctgggtgtg 720
gcaggcctcc tgagccggct ggaggaggac aggtgctgc tgcaccgaa ggaggatgtc 780
tgtcgtggg ccttggtgtg aggcagctgg gcttactgcc gggccctgca tacacagegc 840
ctccagtggg agtgacagtt ggatacagcc aggcagggtt tctgccctgc cgaacacttt 900
ccctcccacc tgctgtctc tggcgccttc tccctagggg tagactcttc tgcctactga 960
agtgggtttg ctgcacattg actggtcagg ggcagagtct ggggtgctgtc ctttggccac 1020
gtgtggggac ttgtctagac cagaatgaaa gggacagggt cccagacacg tttgggggtc 1080
ctgattctgg gctggacacg gttgtggatc cagagaagag gcctagtctc caataaatct 1140
taggaatttt gcaggaawaa aaaaaaaaaa aagtttt 1177

```

<210> 1168

<211> 698

<212> DNA

<213> Homo sapiens

<400> 1168

```

gtttaaatga gaacctaatg atacctggac aaacttctgg agaaattatc aaattgctaa 60
catgccatgt gaaatccttg aacactatta agataattac aggagattga tgtgtttgcc 120
ttagtttaaa atcttaatta gcattgacac caaaagcaac atccctatgt taaaaacaca 180
atgtgaatac tattttatta ttaccatgga accttgacct ttctttcctt cacctatagc 240
tcaatccttg tcttcctcca gtcccagggc tcttatcac aaccatcatt ttgattttac 300
actggattta catgatacct tttactgaag tgcttaaadc taggaaagaa taaatttcta 360
ttgactagga gtccagaaact tagggtagaa tgatggagca ttgttttata acaggrgcag 420
tttccagctt ggattcaaaa tactgattaa aaaaatttgg tttctattat gattggatct 480
gtactttcta acgccaaata ttttaatacca gatacttttt atcttgatcc cacgcttgcc 540
ctttaacctt taccagaaat tcagagaaac agagtacata tttcgccaca caatggatcat 600
cctcactgaa tactttttatc cagaggtcta caaactatga ccctccagtc aaatcctacc 660
ttgcccttgt ttttgtaaat aaagttttat tggaaacat 698

```

<210> 1169

<211> 1408

<212> DNA

<213> Homo sapiens

<400> 1169

```

taaaactatct atcttgtgtg tgtacatttg tgggtggagt ttgtgcgcct gggtttttttg 60
tttggaaaac actgcgtggg caatgtgggt atggggggga gtgatgcatt tttttctagt 120
cttaaaacta aaaacttgag tctaccatct cttgggttgca ctgaaaatac cgcccagcct 180
gatggtgttc ccgtgctgtc cctccccctt ccttctctcc cgcgtctacc tccccacccc 240
gttctgttcc ccctccctcc ttctccctct ccctcaaadc cgtgagtttt ggaagcccca 300

```

746

```

gggcctctct cccccgcccc tccctggatga ggccaccatc ccccaaaccg gcttgttttg 360
cagtttcccc aggatccctgg aagctcgcctg gcgctcgagg gtggcgggga cacggggggg 420
tgggtgaagg ttcgttacct tttctagtgc gttctatcat agttaacggg tgcacacttt 480
tttaaaaaaa gtaaatggat ttgccacaat taaatgtcat aacatttatg acagaatata 540
aaatattaac atatttttaag ccaagtttta ggtgtatttt ttgaatcttg gttataaacc 600
caatttttaa gggcgatgta tccagcgttg tgaaggcaac agagtgtacc catatttata 660
tttttataaa atacctataa gactgtgaat ctcttgtgct aatggctgag ttaattgaag 720
gatcgttttg ccccttttta gcctcccaga gcttcgagga ctcaattcga acccgaaatc 780
ctgccgtggg ggagggggtg cgtcgagacc tgggcccggg gaggttctcc tgcgtcactt 840
tctgtcctga aaggcgccct tccctggtttc tgtggctcca attttctatg cagccccaca 900
ccccttggtt ttttgatcct gagaaataaa agggaggctg aattattcaa atttaaatga 960
ggtttcccc tcatggaaagt gctgctgacc ctctcgtcag aaatggggag cacttgagga 1020
cacagggtgg tggaggccct ttgtgcgtgg ctggctgcat tcgggcagcc ctccgtcgtt 1080
ttttataaaa ctttgtgtga gaagaatata ttgataatgt cagtgaaca agcagacatt 1140
gaaatggagg cacagattac tccacaagga gttcttctgt atattttttc tagatgcaaa 1200
taccttttta attatgttaa ttaatgttaa gactttctag gcttatatcg aagctgtgtg 1260
tgggtcacgg ggtgatcact gctaactgga taaagtttgt gcagcacatt cctgagtgtg 1320
cgatattgac ctgtagccca gcgtgaaaaa tttataaata aatttttcat tgatcttttt 1380
atattaaaaa aaaaaaaaaa aaaaaaaaaa 1408

```

<210> 1170

<211> 824

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (132)

<223> n equals a,t,g, or c

<400> 1170

```

ggcacgagcc ccccaccaag ggacagagtg caaggacatg atcgaacaga aaaagttctg 60
gtacaagatc aaccccgtag ggtggtgagt gctgcagccc cgggcctcac atcctgccgt 120
ccctgtggga gnattggagc ggtcccagtg cccaccgctg attctytggc tccagcaacc 180
cctccagggt gatccgtccc acgcagcctg gcctgaaaca ctgcccagcc actgggtcca 240
gtaagacaga gcctcgagtc attctgccga gaggatccag aaacacagac tttttctggg 300
gtcctggagg cttctggccc atggggagcc cctgggtccc agcgatccag ccctgatgtg 360
ctgagggtgc agggcccagc tgcagagcag aggagagtgg cccccaggga ccagcagcac 420
gaaaggcaca ctgaggcaca ctggcaggcc tgggctgcag agagcctgaa ggtcatgggg 480
tagctgrtgg aagcaggaag accccataca gcagcgacca ctgaggctgg tgctgcactt 540
tctcagggaa ttgagtgtgg gctcccacca tcccgcgcac tggcttcttc caaagcctcc 600
tcctcttaca tcagcaaacc ttctgttcgg tgaccccttc agtgaccctc tgtgcttgcc 660
ttcgtggtct tctcatgga ggatttcggg tcagcgtggg ggtcagaggt catttcccat 720
acccctcaa aggtacttct tgcttgggtc ccacactctg acaccctctt ctgaaatgaa 780
cacttttttg ttgttgttgt tgagacagag tgagacgcca tctg 824

```

<210> 1171

<211> 595

<212> DNA

<213> Homo sapiens

747

<220>
 <221> misc feature
 <222> (530)
 <223> n equals a,t,g, or c

<400> 1171
 agcaactaac ttcttgtag tgatcttaca ttgctcagca agtatagcat tattgcaaga 60
 ttacagaat tcaggtcttt aaaagtttat attttatttc catatgtaga taagcttgct 120
 agtttactgt tggagtatca taaagttttt gttaaaatta cacagggtat taagtaaatt 180
 tccaaggata aaaattatgt ttctaattaa ctigaatttt taagtaactg atgccccat 240
 gtggcaaagg atttattttg cttttgctta aacttggaga atgactgtct ttccattttt 300
 ctttaaaaaa gtggacatta gtgtttataa agaagctgtt gaccaagaga cataatttga 360
 attttgtaaa gctcattgcc ataaaattca cagcccccta cctgtattg ttcacaagt 420
 gcatgtaatc aagcacgtac aatgagacaa aatattggaa gctatttaac tacaatatgc 480
 ataggggatt ttctgatctt atatgtgatt tcttaatgtc ttgttttgn ggcttacata 540
 ggtgatgtca gttcattgat tatgaatatt ctggatacaa ctctgcata tgata 595

<210> 1172
 <211> 486
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (2)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (395)
 <223> n equals a,t,g, or c

<400> 1172
 anatcaaccc tcaactaaagg gaacaaaagc tggagctcca ccgcggtggc ggccgctcta 60
 gaactagtgg atcccccggt ctgcaggaat tcggcacgag tggaaacttg actgttttct 120
 gaggtattgc aagcatgaac ttttaaattg ccttgtgtgg tgtgctgtgg gcttctgtga 180
 tcatgaagta acatgcattt ttcttaaaac ttttcagggt ggtagagatt gcagcctgtc 240
 actcyrcmca cacgtctgca gccaaagacgc aggggtgggca cgtgtacatg tggggccagt 300
 gccgggggtca gtccgtgatc ctcccgcacc tcaccactt ctctgcacc gacgacgtgt 360
 ttgcctgctt tgccactccg gccgtctcgt ggcgctcct gtctgtgggt aagaaagtgc 420
 agggccactt caccagggga ggaatggtac taccaactga ccagttttcc tgtgtctttg 480
 ctgggtt 486

<210> 1173
 <211> 1109
 <212> DNA
 <213> Homo sapiens

<400> 1173
 aacaagggtt tcaagagaca cctgcctttg cagggtgggg agtccgkag gagaaggtag 60
 ggaggccccg tctccactct ggccccacaa tccctgcccc tgagcaggtg gagcatatga 120

748

```

ccccgtcacct gkaggagagt gagaaggcca tgcaggagcg ggtgcagagg ctggaggcgg 180
cgcggtctgtc cctggaggag gagctgagcc gagtgaagc agcggcactc agcgagcgtk 240
gccaggctga ggaggactg atcaaggcca agagccaggc ccgctggagg agcaacagcg 300
cctggctcac ctggaggaca agctgagact gctggcgagc gcacgggacg aggcgcaggg 360
cgcttgccca cagcagaagc aggtggtggc cgaggccag acccggtca gccagctggg 420
cctgcaagtt gagggcctgc ggcggcgccg ggaagagctg cagcaggagc tgagcctcaa 480
ggaccaggaa aggggtggccg aggtgagcag ggtgcgcgtg gagctgcagg agcagaacgg 540
ccggctgcag gcggagctgg cggtcagga ggcgtgagg gagaaggcgg cgccctgga 600
gcgccagctg aaagtgatgg cgagcgacca ccgagaggcg ctgctggaca gggagagcga 660
gaacgcgtct ctccgggaga agctgcggct ccgggaggcg gagatcgccc gcatccggga 720
cgaggaggcc cagagggcga gcttcctgca gaacgccgtc ctggcttacg tgcaggcgctc 780
ccccgtgagg accctgagcc ccccaaagtg agacaggccg ggaggaccgg ggcgcagtag 840
gagtgcacga ggcggcgccc gagatggacc aggggctgcg tcccgccgc gccgcctctt 900
tgagaccggg gtcgtctgtt ccacgcggcg gttgcggcga ctggttggtg tgctcgcgct 960
gcgggggaac cccgtgggag gcgcctggga agggctccct accggccctt tcttcccggt 1020
cgacgccacg tgggagcaca ccgggaaggg gtcccgcggg cgcgtctccc cctcgctttt 1080
tgcgatgtca ccgtgaacgc tgcggccgc 1109

```

<210> 1174

<211> 417

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (357)

<223> n equals a,t,g, or c

<400> 1174

```

tctcccctat aggttcatag aaaaaaact cccaccttat aaaggaatct ttaaaaggtt 60
cctcataaag gaacagggtt agcagaacca agttttgagt cctgggtgaa aatccagggg 120
agaatggtaa tcagtataa ccaatggcca atccaatatt aaaattagtt aacagtgacc 180
aatcttattt cacctacccc acccagagtg gcccaaagca gattgctgga tctgcctcta 240
aaccaacctt cctkccaaaa taattggggg taggttgtgt ctgctgattg tctccataat 300
ttgagatattt aacaagttga gtttggctcc caaataacct aaaggatttt ttttttnggc 360
atctctgggg aggggggagat tggacgtagg caaccaaaaca ggaatggaat aagaaat 417

```

<210> 1175

<211> 972

<212> DNA

<213> Homo sapiens

<400> 1175

```

aatgttgccct ttgtccaagt atagattaag gcaacaaaca tatttgggtg tgtaatttga 60
agttttggac tgaaaatatct ttgcaagtat ccacataaaa ttctgtaatg ccttataatt 120
atattctaata aattatgcat tatactaaga caccattaag aacagttgag gcactacact 180
aatcaaaacc ataaatgagg aaaaaacttt taatgttctt ttctagaagt gttcaaatag 240
gtcttgatat gaagctaaaa gccttattta tattatctta atatttcggc taaaatgtta 300
agctccataa catgaattga tacaattcca attttatcaa tatttytgtga tagaaaaatg 360
ttaatattat tcatgagcta tacagtcctt acattttttc ccttggtgta ggaacaacgg 420
aggagtttct cctctgctaa ctattcatat atgttaactgt aacaaaagtg tactatgtta 480

```

749

```

tgcacacatt acaaataata taaggggaag ttttattagc ttagtaggaa attgttatta 540
ttaaggttta aaaatgagaa caggtgtgag ttttccaaaa tacttaaaaa taatagtgtc 600
aaaaattcag gggcagttaa ggagtcacatg atggaactag aggtcactat attaagtgc 660
ataagccaga aacagacaaa cattgcatgt tctcaattat ttgcgggac taaaagtcaa 720
aacaattgaa ctcacatggata tagagagtag aaggatgggt actagtgggt gggaaaagg 780
gtgtgacgag ggaactgggg atgcttaatg tgtacaaaaa ctatgtagt agaaagtata 840
aataagacct agtatttgat agcacaaccg ggtgagtata gtcaataata gcttaattgt 900
acaaataact aagagtataa ttggattgtt tgtaacacaa ataaataact gagtggatgg 960
ataaaaaaaaa aa 972

```

<210> 1176

<211> 443

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (428)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (437)

<223> n equals a,t,g, or c

<400> 1176

```

ctcgagcggg gctgggtgta aagctgccta accacagccc catctccgcc ctgtgctgct 60
gaggggaccc cggctgcccc caggttccag gaggtctgt ctgacttctg gctggccctg 120
gagcagctga ggggccacgc tgccatcgac tacacgcagc tgggcctgcg kttcaagctg 180
caacctggga ggtgctacac aatgtggcgt cggcacagt ccagctgggg ctctggacag 240
aggcggcagc agcctaaggg aggccatgtc caagtggccg gagggctccct gaatggcctg 300
gactcagccc tggaccaagt gcagagacgg ggctcactgc cgcamggcag ktccccagg 360
cgagktyttc cggccccamc gtggacctga acacttgag cccgtggatt tctggcaagg 420
ccaaggtngg tggcctntgc cat 443

```

<210> 1177

<211> 591

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (587)

<223> n equals a,t,g, or c

<400> 1177

```

ccgctctaga actagtggat cccccgggct gcaggaattc ggcacgagtc tggagacaag 60
ctgaaacttg accagactca tttagagaca gtaattccag caccaggaaa aagaattcta 120
gttttaaatg gaggctacag aggaaatgaa ggtaccctag aatccatcaa tgagaagact 180
ttttcagcta ctatcgatcat tgaaactggc cctttaaaag gacgcagagt tgaaggaatt 240
caatatgaag acattttctaa acttgccctga gtttgaaaat ttgttaacaa tacattaaaa 300

```

750 .

```

tcttaaagca tcaaattggt gttcgccaag gcattatgag actctactgt gttaggggat 360
attctttttgt ataaaaacaaa cagggtttttg aaaatattac tgtatagtta gttgttcagc 420
taaaactttga gaagaattta attatgtctc atgagggtatc aaactatgta attttgtcct 480
tgttatttttt gtttcctttg taatttactt gatgagttta tatcttcatt aaagaatggt 540
attataaaaaa aaaaaaaaaa aaaactcgag gggggggcccc ggtaccncaa t 591

```

<210> 1178

<211> 460

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (18)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (39)

<223> n equals a,t,g, or c

<400> 1178

```

aattnttccn cctgatanga tttcagcaaa ttctgatanc ccgggtatta cttcttaatg 60
cattttttgta acatttgaca aacatctccc aatatgtaga ctcccactct cctgatgcta 120
atcagtatca gacaatggaa gtaaattttc ctgcttttct caacttttcc tcaaattcat 180
gttagtgaag tactttcatt tggccatcat tatttatcaa ccttaagaaa catgcctatt 240
gacgaagtaa atatactagg aattcaacgt atctacggga atgtggacaa agacatatat 300
caagacaagg cactagagtg aaaagccatt aaaataaaat gctcagcagc aaaggatttg 360
taatggttaa cttgcaatat rtccatatgg tgtaatatta cagtcattag aaatgacatt 420
tgcgtaagga tctgagtgga aactgatata gcctgtcgga 460

```

<210> 1179

<211> 567

<212> DNA

<213> Homo sapiens

<400> 1179

```

gagacaacaa aacaaacaca gaaaaaagaa cataataaca gagacaaaat aaaattcaga 60
caacagtawa ctgaasmcat tttaaaaacc agaatatgta gtctacggat atttttttatc 120
ataaaaaatga tcttttgcta aacaccccat ttactaaaag tcctcctgcc aggtagttcc 180
cactgatgga aatgtttatg gcaaataatt ttgccttcta ggctgttgct ctaacaaaat 240

```

751

```

aaaccttaga catatcacac ctaaaatatg ctgcagattt tataattgat tggttactta 300
ttaaagaagc aaaacacagc acctttaccc ttagtctcct cacataaatt tcttactata 360
cttttcataa tgttgcatgc atatttcacc taccaaagct gtgctgttaa tgccgtgaaa 420
gtttaacggt tgcgataaac tgccgtaatt ttgatacatc tgtgatttag gtcattaatt 480
tagataaact agctcattat ttccatcttt ggaaaaggaa aaaaaaaaaa aaaaaaaaaa 540
aaaaaaaaaa aaaaaaaaaa aaaaaaa 567

```

<210> 1180

<211> 349

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (339)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (346)

<223> n equals a,t,g, or c

<400> 1180

```

gcaatccttt cgcattctggg cagttccaaa ctagaattct tgccctgccct gcctcccatg 60
gaatgccctt accctactgc caatgtgatc tttctgaaac agcataacctg atattgtcat 120
tcccaggagc agcttccac ctcctcagg atttaaactt taaactctac agctctccac 180
actcacctca acaatgagct cctctcatca tttcttctcc ttgtcccag tcacaggcca 240
cttttggggc atgscaaacc actttatttc tgaarsttct gccctgract gttkgytct 300
tgactggggg gctaaggatg actgcagtca tgcaggggnc aggggnaag 349

```

<210> 1181

<211> 379

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (352)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (366)

<223> n equals a,t,g, or c

<400> 1181

```

ggcagagcac tgcactccag cctgggtgac aagagcaaga ctccgtctca aaataaataa 60
ataaaaataa aaaataaaca tgatgatcac agatgcagtc acattttctg agttcttgtc 120
tctctgccag tgcccaccca gatagcctca caaaactttg acccagccac tgtagtgctc 180
gccaccgsc ataaaggagc tgagccagc aggggmactg cctggggccc tgtagccaaa 240
aggctacagc aggagctgat gaccctcatg atgyctggyg ayaaaagaat ttctgctacc 300

```

752

ctgaaagcct tatcaaattgg acaccattca tgaaagcaac tggcacaggg gnatggaaga 360
tctganggat aagctcttg 379

<210> 1182
<211> 403
<212> DNA
<213> Homo sapiens

<400> 1182
gccccaaagtc ctgggattac aggctgagcc accgcgaccg gccctgctgt tgcttctgag 60
gtttgaaaac cgctgcctca atgctcctga ttcagctctt cttacccaaa ggttccccca 120
cctcatctac tctgttcttg cacagtcgcc cttttctctg atgccccggg caggtttctc 180
tctgccagct ccacgcttct ggagtcctcc atccgtcttg gggcccagct gccactgtc 240
tgggttcaga ctttctcaac actccctggc ttctctgcc tagttttgcc ttctccaatc 300
cactcttggt ggggtggaagt acggttacca tggtaacttg aagacaacgc aaatctgatt 360
gtatcattac aatgactggg aaaacctcca gtgccacaaa ata 403

<210> 1183
<211> 417
<212> DNA
<213> Homo sapiens

<400> 1183
gctagattaa atcgtagaat gtgtgccagc aaagcttaaa gtttccaggt tagctgaggg 60
aggccatttg gaaacttggt tctgaactcc aataggagag agaattgtca agcaatgggt 120
cttctgcca tttccctctg ctttgccatc ccatgggata agggaaccac ctcaggttcc 180
caatcccaaa atcaatatca cagagtttag agtccaggcc ctccggctaaa attagacccc 240
atagagtttc tagtattaat tggcccatca ttttaatatg aattaatgta attagtctgt 300
agctatgttt atttgtaata tggaggatgc ctgtctgctg tacatacatc tttctaagac 360
agatcctaag ctgtgttcaa tttcttttcc agtgtaatac atttctagtc acaggac 417

<210> 1184
<211> 643
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (617)
<223> n equals a,t,g, or c

<400> 1184
tgacacgttt aagttgatac cattgtgcca ttctctttt ggctctttt ttgtccatag 60
aggcttcaag atagatagggt aagagcccag tagtgttcat aagaagccaa tagagagcag 120
gagccacttt atcagggtggc aggtgtcctg ggctccctg ctggctagtc ccaagcgggtg 180
gtgttgccag gatgtcttgg aggtgataat gggacacaca gaggcactga gtctccatag 240
gttaaaaatgc caccaaaact ggcttttgcc taatatccct cattgactat ttrgcattta 300
atttatattat ttctctgaca tttctgcaag ctttgtatatt atatttcac tttatagatg 360
aggaaaatttg aggctcttag aggtaaaaatg acttgcccag gtcacacagg aagtggcaga 420
gacaagcttt ttaataaaga aaaaattaat aaaatataat atgagagtaa cttaaaaatat 480
taataaacca caatttttaa ttaattaacc gtgataacca acattaataa aagttaagat 540

753

accaaaacac tgggtgtctaa ttctttcaac taacaacttg aattattttc ccatttttaa 600
 ttaattaacc gtgatancca acattaataa aagttaagat acc 643

<210> 1185
 <211> 551
 <212> DNA
 <213> Homo sapiens

<400> 1185
 tatataat t aatgcaaagt cttttacatt aatgtaagg taggaaaaga ggttggagga 60
 agatatggg aggtaggaaa atgggacttt ttctctccat ttacttttga tgtttgaatt 120
 tcaaacatga gtatat tttgt gtattatttt gcggttaaaa aactgaaga ttgcataaag 180
 atcaaagagg gaaatttaag ggaattaatg ggttatgatt gcatttggtc agaattggtt 240
 tgggtggctca tgacaacatt ttgagagaga gagattttta tggcaccaat ggcagctagg 300
 ataactagtt taaagtttag ggcctgtgtt aatagatttt gctttctagt ttcagaaaga 360
 ttctcttata gtactgtttt aatctgtttt tctaagccct ctgatttatg tatattta 420
 aggccacaaa ataattgtcaa atatatggca taataaccaa caaatatttg aataagtga 480
 aggtactcta caaaatgcta tgggaaagac aaaaataaat aatatccctt tctttgagg 540
 attaacagt a 551

<210> 1186
 <211> 567
 <212> DNA
 <213> Homo sapiens

<400> 1186
 aacacactat aaactttcaa ggagagaggc tgtgtcttct tcatgtttat atctgctaca 60
 aactgagtt catggctttt cacacataat tgctcaacag agcagggtgc atggaaagtc 120
 aattcaatga gtaaaattac ctcaaaatag tccgttaatt cactcacctt tgatgtagac 180
 agattattct gcattgatac ttatctctta ctcttaaaat tcgctatgta ttaataaata 240
 ttttattgaa tattaaggaa tgatcactat tttaataaga tgttctttac catatatttc 300
 tatatgtaca tgataattag aagtatcaaa ttatatgttg gaatgtaaaa gcttttcttc 360
 tgaagccaag catttggtttt attgtcattt cagtggcaaa tatggacttc atattcaaaa 420
 tgatgttcta tattattttt ccttacaagc tttttgaaaa acaatttaat aattccatga 480
 ttgttgtagc accactgaat tgattctgaa agcttacttt ttaaataaaa attgacctt 540
 atcaagcaaa aaaaaaaaaa aaaaaaa 567

<210> 1187
 <211> 566
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (529)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (543)
 <223> n equals a,t,g, or c

754

<220>
<221> misc feature
<222> (557)
<223> n equals a,t,g, or c

<400> 1187
ccatcttttct ctctgctcta tgagaccctc cccttcctta tttttatctc ttcccacttt 60
atgctgggcc ttccctatcc tgccctgagt tatagttagt cactaacttc tcsgetggct 120
cccaccctta tcacatctca gctacatata taaactctct gttatctaag taattctatt 180
agccagaagc aattccagag tttatattag tactaggaag gtgtcatgta gcccctgtct 240
aacatcttgaa ttgaactaaa atgtgaatct caataaaaagc aacacagttt tcacagcata 300
tgctgataat ggcaatccaa cttctttttgc cttttcccca gagaatcctg ggaatatcct 360
gagcttggtg ctttgatgat tctatttctag ctttggtgcc ttataaaaaa ttacaaatca 420
atcttgaaatg gtttaagtct atgattttgt tctgcagccc tagctagggg tgagccaagc 480
cttatgaaat ctaaaactcag cctaacagaa tagaaatcta taggcttang ttaaggggtca 540
cangggcccga gtccagngtg tgattg 566

<210> 1188
<211> 304
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (290)
<223> n equals a,t,g, or c

<400> 1188
ggcagaggtc tttgaggaat tgccaccctg tcttccacga tgggtgaact aatttacact 60
cctaccaaca gtgtaaaagt gttccttttt ctccacaacc ttgccagsat ccgttggttt 120
tttaattttt tattgataac cattcttatt ggtgtgagat ggtatctcat ggtgggtttg 180
atctgcattt ctgtaatgat cagtgatgtt gagttttttt catatgattg ctggccacat 240
gtatgtctta ttttcagaag tgtctgttca tgtcgtttgc ccactttgan gagttgtttg 300
tttc 304

<210> 1189
<211> 540
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (29)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (49)
<223> n equals a,t,g, or c

755

<400> 1189

```

tgtgtgtaca tcacaaatct gttttcttnt gcttctcttt aaaaatgtnt cctgagtgat 60
ttcatcagca gtgctgttgc taagcctata tttagcaact gaaaatcatg ctcagaaata 120
ctgtcatgct tttttaaaaa rgcatatcca tccctccaca catggctgat tccagaacct 180
tcatgccctt agcaaaaaat tgagctgtcc ttcagggttt caaaaaaagt actgtactcc 240
tgctgcaccc cmggctcttg gcaaggaggg gacttttgtc ctagagaatg ttctttctta 300
tgtattattg caaaacaatt ttgttcttgc atactgaagc atcactggat gaatttcttt 360
cccctgtaga caaaccgagg gtgagtattg ctctttaaat gtcagtaa at ttgttttagc 420
ttctggggca aaccttggtg tactcattct gtccctccca gcataatat ttaggttgtc 480
ataaaatagg gcaaatgtag gatagtgtaa ctactgctgc tgaataaatg ggaaatagtg 540

```

<210> 1190

<211> 489

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (86)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (260)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (349)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (488)

<223> n equals a,t,g, or c

<400> 1190

```

gcttctctaa ctaggaagta tacgtaaagg aggaattgct agggcatggg attggcataa 60
tttcaccttt tctagatatt gcccantcgc tgcccacagt gcacatacct ttccaccagt 120
cacatgtgag agggcagatt ttccaaatgc tcatcaccac ttggcactgt gtggactata 180
at ttgtggcca gttaggaaat ggcattctcat tgttttcac ttaatttgcg tcagcctgat 240
tactcattga aacttgtgan gttgagaaac ttttcttaag cttattggcc attcaagttt 300
cctcctttat gaaatgggtg ttcatgtcat ttgctcattt ttatattana ttgtttttct 360
tttttccagc tkacttgtak gaactctaca tcttatcaat attaatacatt tatcgaaaac 420
tatttgggtg ccattatctt ctctagtca atgttttttg tttgtggata tcttttataa 480
tatataant 489

```

<210> 1191

<211> 412

<212> DNA

<213> Homo sapiens

756

<220>

<221> misc feature

<222> (377)

<223> n equals a,t,g, or c

<400> 1191

```

tcaggcattg acacttttga agaaaggggg taggggacac agctgggcag gtggagtggg 60
tkggcaggat ggctgtccca gtctgcccac cttctcttgg ctctgggacc agcggttgt 120
tctagggatt tggacctgga ggccaagggc aataggagag ggtctgaagc ctgtgctgtc 180
tgctgcttgc tgtgaatggc cctcccgggt catgacagag ctcttttggg gcaggagggtg 240
agggcagggg gccccgctcc ttggtaaggg cctgccctgg ggctcccagg gaagtgggag 300
ctggggagcc aatccaccca gaccgcgctc cacctgggag gcatttgggg ttgcaggacc 360
gagacccaca tcctctnact cacttctcca cccgccagca gctgccacag gc 412

```

<210> 1192

<211> 828

<212> DNA

<213> Homo sapiens

<400> 1192

```

gcggccgccc cgcccccgct cccgcmgccc cccgccagtc agtcagtcag tcagtcagtc 60
agtcagtcag tcaactgagcg cgcggcgcgg gagctgctgg cagtcgctgc gtctctggcg 120
agggagcgcc gcgcctggggg aggaggcgga ggcagcggtt ggaggagcgc gagcggcggt 180
ttccttgccc ggggcccgcgg gaaggccgac cgactgccgc gatggagcag ctatcagatg 240
aagaaattga tcatggtgct gaagaagaca gtgacaagga agatcaggac ctggacaaaa 300
tgtttgagc ctggcttgga gaactagaca aactcactca gagtttggat tctgacaagc 360
ccatggaacc agtaaaaaaga tctcctcttc gccaggaaac aaacatggcc aacttttctt 420
accgcttcty catatacaac ttgaatgaag ctctgaatca gggagagact gtggatctgg 480
atgccttgat ggctgatctt tgctctatag agcaggagct cagcagcatt ggttcaggaa 540
acagtaagcg tcaaatcaca gaaacgaaag ctactcagaa attgsctgkt arccsacata 600
cattgraaca tggcaccttg aaaggattat cttcttcac taataggata gctaaacctt 660
cccátgccag ctactccttg gacgacgtca ctgcacagtt agaacaggcc tctttgagta 720
tggatgaggc tgctcagcaa tctgtactag aagatactaa acccttagta actaatcagc 780
acagaagaac cgcagtcagc aggcacagtg agtgatgctg aagtacac 828

```

<210> 1193

<211> 280

<212> DNA

<213> Homo sapiens

<400> 1193

```

attttaaaga caaagtaagt aaaaatactt ttagtaggca ttcgtggatt gtgaacatcc 60
aagttatatt ggtttgtata gaatggcatt aagtaaaaat tacagctgta taacagtagt 120
tttctaaatt gagagagtcc acattgtaat tagagatcac tgtgaccaa atgcttctcc 180
ttgatttata atgatgkact gtatttttga ctgcttatat gaaatttcag caagattgac 240
gatattataa agatgcttat aaagtgtgaa tggagacgct 280

```

<210> 1194

<211> 393

<212> DNA

757

<213> Homo sapiens

<400> 1194

```

gcattccctt tgccatcccc tggactcact cctcattccta ttccccaaaa agtgagaagg 60
gcaggctgtg tagatggcat tcctgagaat gagccagtgg agagcatctg gccctggcat 120
gtgaattcaa gcccttttccc agctgtaata accaccctct tttttccaca ggggctaaac 180
tgcacgggtca agaatagtaa gtcattctttt tctgtttctt ttcttggtgc cttcttaatc 240
aagtgagagc ctgctgccaa cttctgacag aagtcttgcc atgccactcc aggttcaggc 300
tgtgagctac agccatccgc aggagggttc ccggaraaat tgtggatgcg ttgcacctgc 360
gcttctgtcg agaacattca ttatgcaaaa ttc                                     393

```

<210> 1195

<211> 937

<212> DNA

<213> Homo sapiens

<400> 1195

```

gatggctggg ggtgggagtg taagtccctt ttcctacttt catgtaaagt gccacaggtg 60
tcttggtttg catattcaaa tattatatag gaaaaacagt ctgttatgta tttcttcacc 120
tagcttcttg taatatattat ggacgtttcc agtttttgta ccttcttagc taaagcagtt 180
gcctttttgt aatggcaatt aatttatatg ataaaacttt gtatccactg tagttgacag 240
tattggttgc taattaactg ccatattgcc ctgtctttct attaaaaaaa tactgtacct 300
gtacttagag gctaacagat tcatgtggac atttaccagg caagaccaac ttgtattgtc 360
catgatttct acgatttcca ctatcttcaa atgaaaaata aacgctgagt agaactgatg 420
ttttcagact aactcctttc aacttttagca tttgggagtc ccagatttct gtttacgttt 480
gtgtcgcctg tttgtctcca aaataagttc tgtgtctctt gggtcaaaaa aaatgattaa 540
ttcgcatttc ctttgaagcc attgtgaaaa ccttaaaaga aaaaaawaaar araaaaagca 600
agtatctttt ccagttgggt tgtcttcagc agcaatttac tcttattgaa gctgttcctt 660
cggagtgtgt gaacagactc aagatattat tataaagcat catccttcaa tcaaaggatt 720
attttataat atgtgctgtg aaattaactt gagtggcaaa gtttggtgca atgagttatt 780
tcattcaatg gtgattgatg ctgttaagta atatttttta gtgactcgag gaaatactgt 840
gcatttacag atccatcctt aaggatgcag gtctaaaaaa agagtaagaa agaaaaatca 900
agtggtagat agataraara araraaaaaa aaaaaaaa                                     937

```

<210> 1196

<211> 490

<212> DNA

<213> Homo sapiens

<400> 1196

```

gtacgcctgc aggtaccggc ccggaattcc cgggtcgacc cacgcgtccg tttttttttt 60
tttttttttt tttttttttt ttttttgttt tttttttttt ttttttgttg tacacaatca 120
tttgttttat ttgaaaacat gtctacactg cattgagcac caacacaggc gtgaccaaga 180
aaccacagct cctgtccccg cagcactggg tccagtgtat gacttggggg ggactgttat 240
ttttcacagt gaggggggga aggataggaa agaaaagatg gccattatcc caactcctgt 300
tcaggaatct gaacaatgaa agttatttaa actcatccag ctcttctcat tccccctctc 360
tcaatcagct ggtgttcaaa tatggaatct gaggccgagc gcagtctctg gtttctttga 420
agaacttttag gcacactcca ggctcaggaa aactgcattc ctagttcttt ctgattgcaa 480
tagccttctc                                     490

```

<210> 1197

758

<211> 1511

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (103)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (332)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (649)

<223> n equals a,t,g, or c

<400> 1197

```

aggaggaacc agaccgcggc cagagcggtc aggaaacaaa tggaagactg ctgcgaaccc 60
tgcccatctc tttgctatga ctaaaatgaa ttcccctatg ggnaagaagg catgtggtat 120
gacggggagt ttttatactc attcaccatt gacaattcaa cttactctct cttcccacag 180
gcaaccccat tccagctgcc attgaagaaa tgcgcgggtg tgggaaatgg tgggattctg 240
aagaagagtg gctgtggcgt caaatagatg aagcaaattt tgtcatgcga tgcaatctcc 300
ctcctttgtc aagtgaatac actaaggatg tnggatccaa aagtcagtta gtgacagcta 360
atcccgagcat aattcggcaa aggtttcaga accttctgtg gtccagaaaag acatttgtgg 420
acaacatgaa aatytataac cacagttaca tctacatgcc tgccttttct atgaagacrg 480
gaacagagcc atcttgaggg tttattatac actgtcagat gttggtgcca atcaaacagt 540
gctgtttgcc aaccccaact ttctgcgtar ttggaaaagt ctggaaaagt agaggawtcc 600
atgccaaagcg cctgtccaca ggacttttct tgggtgagcgc acttgsggnt ctctgtgaag 660
aggtggccat ctatggcttc tggcccttct ctgtgaatat gcatgagcag cccatcagcc 720
accactacta tgacaacgtc ttaccctttt ctggcttcca tgccatgccg gaggaatttc 780
tccaactctg gtatcttcat aaaatcggtg cactgagaat gcagctggac ccatgtgaag 840
atacctcact ccagcccact tcctaggaac aatggaagaa gaaaggactg aaccagggta 900
tttttgttag gttttctatg tgactccaag agggaaatggt caagttgttt catgagtttg 960
catgggccct tggaaaaaca ggaaaggagc aatgaagatc caagcaaac ttacttttca 1020
gcgttggcct ggaggacaaa taagaaatga aacatcctat gaaatacttt atagcacatg 1080
gcagatttgc aactagtaaa atgctggtga aatgctgttg gtaaagcaca tggttcaaat 1140
ctagaagatg cagttcaaaa acaagacaga ctcgagttgt tagggctgag gaaccaatca 1200
aggtagaaca aagaaaatgt tggggtaaaa gtgttgctga ttgtcaacac aaactggcct 1260
aataatatta ataagaacct gtcttattaa gactggcctt agaaccgtag gtttttttaa 1320
aaaattatta tttatTTTTG ccctcttttg ggaagtgggt gggtagattt aaaaaatccc 1380
ttcctgagta ataaagatac aaaatgttac tgctgataat tgtgatttgt tgagccacgt 1440
ctatattaac tatagctccc ctctattttt aaaattttac ataaaattgc ttcttctct 1500
tttgtcaagt c 1511

```

<210> 1198

<211> 743

<212> DNA

<213> Homo sapiens

759

<220>
 <221> misc feature
 <222> (712)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (732)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (735)
 <223> n equals a,t,g, or c

<400> 1198
 ctatcaaaagc attgccttat actttgaagg agaaaagaga tatcttcagg ctggaaaatt 60
 cttcttgctg tgtggccaat attcacgagc acttaaacac ttcctgaaat gccaagctc 120
 ggaagataat gtggcaatag aaatggcaat tgaaactgtt ggtcaggcca aagatgaact 180
 gctgaccaat cagctgatag accatctcct ggggggagAAC gatggcatgc ctaaggatgc 240
 caagtacctg ttccgcttgt acatggctct gaagcaatac cgagaagctg cccagactgc 300
 catcatcatt gccagagaag agcagtytgc aggcaactac cggaatgcac acgatgttct 360
 cttcagtatg tatgcagaac tgaaatccca gaagatcaaa attccctccg agatggccac 420
 caacctcatg attctgcaca gctatatact agtaaagatt catgttaaaa atggagatca 480
 catgaaaggg gctcgcacgc tcattcgggt ggccaacaac atcagcaaat ttccatcaca 540
 cattgtaccc atcctgacgt caactgtgat tgagtgtcac agggcaggcc tgaagaactc 600
 tgctttcagc ttcgcagcta tgttgatgag gcctgaatac cgcagcaaaa tagatgccaa 660
 atacaaaaag aagatcgagg gaatggttca ggagacccga tatatcttga gntagaagag 720
 gccacgattc cngtnccttt ttg 743

<210> 1199
 <211> 509
 <212> DNA
 <213> Homo sapiens

<400> 1199
 gagcagggaa actgtgtcct ggcagagatc gtggtcctgg gcacacagga cccctcagca 60
 cactgaggtg gagctggggc gaggggaggg ggtgcgctct gggtaactga aggtgtgaag 120
 sgcccagggc ctgtttcttg gcagtgcagg aagtcccarc cccatgcctg tggtgagatc 180
 ccctgtaggg cccccccac catggacact tcggggcctc tacggctctc caaagctgtg 240
 tcctcatttc cactgcagca gaggggcgtc cccagctccg tcaaacagcc ctttctgttt 300
 ctggagtcct acaagtggag gcccAAATCC gttcccatgt tgaggcaagg ccctggctgt 360
 tccttcctct ctggaaaccg ccttgaaactc ttcccttggg acatgcctcc tcgaccagcc 420
 ttgaaggggt gtcctctct cactacctgg aaccaaAcac ccccttcctt tgtgtacaag 480
 ggcaataaag agtagacctt catcttcaa 509

<210> 1200
 <211> 266
 <212> DNA
 <213> Homo sapiens

760

<400> 1200

```

ggggaggggg atgtaaattt gataaatagg ttggtgaaaa cttatatattt cttgttaaaga 60
gagagaactg agcatgttgt aggtataagg taaaaaggcg tgaagaggaa tatttcgttg 120
ataatgaaag tgagcagcta gggaagaaaa ctcccagagg aagagggagg caaggaaatc 180
aagaacacac ttaaagtttg tcagaagaag gaactttatt tccttaaaca ttcaagaaaag 240
atgatgtcat ttcagttatt gattgt                                     266

```

<210> 1201

<211> 394

<212> DNA

<213> Homo sapiens

<400> 1201

```

gttttctaca tatcttgaaa ggcagtgcac aatgacgtgt aattatctag gtggtaaaac 60
tgaaacatac ttctcttcc cttgaatata aaaaagcatt gtggtattag tacttttattc 120
ttggatcatt gttcagaagg aggttcagcc cccagacaac cacattttta ctgtcatgaa 180
tggcaagaca aaatgtagag ctcaacttac ccaaaggaaa aaaggctcaa aagacaaatt 240
atggcacaac ttagcagcca aattcttacc aagtacagac ttttgacata ctgatctctc 300
tccagttsc a gts ggaaca tgcactttga atgatgtcat tcaaaattac cctgcccaga 360
cacacttttc attgattctc ttggagggca gttc                                     394

```

<210> 1202

<211> 434

<212> DNA

<213> Homo sapiens

<400> 1202

```

caaaaaggcc agaggctcac taggtcagca tcataccaaa cgcttggtt tcaccaggca 60
tcagtgtgct tcasttgaga gtttggtagc atgggttaaga tcgagtccat gctaggtaag 120
tcctgttagg aatgtcagtt tgtattccgc ccacgtgaat gatgctgagc ttaatgtatt 180
attttgaggg gcttcttcag agcagttctc actgagcttt ccattaacct acactcttcc 240
ggacggctct taaaacttgc aggacataat gaaattggga agagcagagt gttgaagtct 300
atagcatggc cttctgcttg accctgagtt cctgaattga atgtgggaga cacaggccat 360
acttctctag gcactcacat gtctcccttg gcataaggaa acatgttagt aatatagttt 420
tttagatcca acag                                     434

```

<210> 1203

<211> 425

<212> DNA

<213> Homo sapiens

<400> 1203

```

cactcggcca ggcgccggcg acctgagggg agagggaacg cagctgaaac tcgaactgtg 60
agatgctttt gacaagttat aataagggag agatggtagt aaaggaagtg aagaagcgac 120
gtgaaattga aggaaaagaa aatgacctgc cttcttaccg cggttggaat acacacccaa 180
acgagaggta gcagagaagc aagcagtgca ttctgttaaa aattattgtg tcctcatttg 240
agagaggagg gatcctcaaa taatacaact atgtgcaaag caggaagtga aatccttctc 300
agtcctctcc ccagttgtaa tccaagcctt ccacatcttt cctgtatgtg cataaccatg 360
ttattttgc ttttatgaa aatgagatta tgcatactgt tcgataatct gtttcagatt 420
aaata                                     425

```

761

<210> 1204
<211> 689
<212> DNA
<213> Homo sapiens

<400> 1204
ttcgacccac gcgtccgccc gcgtcccagc tagagccaga ccgtcgctcc ctgccccgca 60
cgccgtcggc ctcccttggc agcagccgcc gcagcagcat gggcagcaca gcagttgcca 120
ctgacgtcaa gaaactgatg tcttcagagc agtaccacc agaggagctc ttcccaggagg 180
gcacaaatcc ttttggccact gtcaagcttc gtcccacat caccaatgac cgctcagcac 240
ccctcatccg ctgaggcggg gtccgagggtc gtacccacaca gtgcacctgc ccaggggctg 300
ttcagagctg gcaatggcag cgacagcagc aacagcagca gatccaagaa gcgggtccct 360
gagacggggg gtggctgccc tcccagacc accccggcag cctgagcagc tccaaagcac 420
tggtttgggg tccgagacct tcaaagtaaa gcaggcggaa tggggggaca ggacaatttc 480
tccccctcca ggggctccag gactctccct ggggggcccc cctcttggcc cctaacctct 540
ttcccccttt tctgcccccg tggggaggag ccccttgtag ctgctccgtg cccaacacat 600
gccctctctg tacatctttt gtaaagtatg agaaataaag gaagtggacg caaagtgatg 660
cggcaaaaaa aaaaaaaaaa aaataaaaa 689

<210> 1205
<211> 2476
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (833)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2434)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2456)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2471)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2472)
<223> n equals a,t,g, or c

<400> 1205

762

```

gaagtgctgc tagtttttat gagaagtata ttatattaaa tgtgaatttt ttaaattttg 60
cttcttatac tggaaggaat tttagccttc atattgatat ctaattaatt atttaagtgg 120
aagaggctgc atcacaattg aggtaatgta gagcaacatg ttaaagaatg atggtttagca 180
gaagctgttg tatacaatct tcatgaaaat ttcagtgtgt atttttcttt ttctataata 240
cctttaactg caaagaaaag gcagtttcaa atataagaaa tttatttcag gtaagggtaa 300
tattttaata gtagtcaata atctagctta aggctgtaac tcttctatcg gggctaattg 360
tatgaatagg tgtcagtatg ttgaagatta ctttcttttg tgactttctt ctacctcatg 420
ccactgttta aaagtaaaay gtattttaat gatgtagtaa taagactacc attctaaata 480
tcacctactt atgaataaca tgtaataatt tttaacmtta atgattccmt aaaattgtat 540
tattgggatt agaattgtgt ttatgacmgt ttagtggttc ctctgmgtgca gaaaactctt 600
ttttggrgat atcttccatc aagcagtact cgtgcccata tacaatctct tagtggttag 660
gagaaataaa taaaagggcc ataattggtt gttctctttc agacataatt tagtagggga 720
caagaagtct gttcttcagt gagtacacta gagatttact ctggtgactg ctttttgagt 780
tatgggtgaa gtaaggtagt gctttaccat aaccttgatt cattcacctc tgnattcatt 840
tctcgcccc gtcactgata tttccttgag catatatctc tgctaacac tttagtaggt 900
gctatagagg atacatgaaa agtatgagat ctggttccat ccagtaagac attttaatag 960
agaagatcaa aatgttacct ggcagttggg gaataatctg acttcgttgg cagttggcct 1020
taacttctta atcattgatc caggaatatt tcaaccagag acacaacttt ctggcagaca 1080
gacaaattgt acaacaccaa caatatcctg gaccttgaaa ttctgtttac ttcagtccat 1140
tgtatccttt aaggcacctg tgctagccta gattttgtaa taacactgat ttatgagaat 1200
ggacaaaagt ggtaggggaaa ttgttccctc tccacttctg aaagtatgat gatgtattaa 1260
ggatggagga gttattaaaa atgtctcttc tgatgaggta acaattagat gaaacatgt 1320
taaagctgag atgaacactt agaaattcag ggatattggg tcttttagct tatgaatttg 1380
agctgcttat ttaattgggtg taatttacta catattagta ctatattcgt aaggattttt 1440
tattaacat tacagatttt acaaacagct agttatatgg taaacagatt attatgcctt 1500
tttgcaattc tgaatatgat tctagtattt gtgtagatgt atttggtact ttttccccta 1560
attccaacac tagtttatat atatagcgaa taaatctagt tgtataaatt tttaaatgcc 1620
gtcagtagaa agcacacaag gttatgattt ttttaattac tggttctga tttctttcac 1680
ttctgatcct tttccttttt ctcagatgta gctgagctt gatcatttta agacaacgat 1740
gggtagaatt ttgagattaa tgtaatttt ccctttttgt taatttcagt cccctctcac 1800
tatgcttttg tccagaagga tcaagaattc taccatccct tgggtctttg tgtataaaca 1860
atgttaaata aaggtagact cagtctttta gatattagac agttttttta gtccatggga 1920
ttgtaaatat aaacattaac tttcctataa gaataatttg gctttgtaat ctatagcctc 1980
aaattgggtat ttattatgga ttcactagac aaacagctgt ttccttattg tcttttttct 2040
ttagtgtttc tgatttgcta tcagtagctg tttttaaagc crtccaagga aaataattat 2100
ttacagtttt tgaagtcact tttgagccct catcaagctc tcattgtgat gggagggata 2160
cctttttgtt gttaaaaagcc tattattgtt aaaggccttt tatggaaaacc aacttgga 2220
acaaccttaa atgtggatgt atcagatttg gtttatccag ccatgggaga gaaaacaaac 2280
ctaagtttac tttacttgta catatacact acaatggata gtatatttgc tgtaaactac 2340
aatgtaaaaa ctcaataaaa gtgcgctgta cttcttaatg tttattaaaa gatgtatttt 2400
tacaaaaaaa aaaaaaaagg gcgggccgct ctanaaggat ccaagcttcc gtaccncgtg 2460
ccttgcgacg nnatta 2476

```

<210> 1206

<211> 630

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (169)

763

<223> n equals a,t,g, or c

<400> 1206

```

ttcatagcct tctccctgat acccctcccc agtgtcacat ttgaagacga gcactgagga 60
tgaggaacca actgaagaat atgaaaatgt tggaaatgca gcactaagt ggccaaaagt 120
ggaggatcct atccctgaat ctaagtttca gatgaactcc cataatgant gatgaatttg 180
tgatgaggga taacctggaa gtggtattca cacattatgc tacaataaaa ggttctaccg 240
tggagaggat tttgacacat tcagtaacta atggaacaca ccgtcaacat gaattcgcac 300
cttacatgac agaagtgatt cagggattcc tatgaataga aatgctgaga aggaacgcat 360
tttattgcag aagctaaaaa gctaaagtac cagtcactca gagagaagga aattaatgtt 420
tcttaataat cctgtttaat gtttgattgt ttttggaatg tgttattgta aagatgtcat 480
gcaggacatg tatatgttgt ctgttgtaaa atgttaacga atactttgtt cagggctcac 540
tctctctttg tcatgaaagc cagctccttg tggcgaggta aagtggaatt ccaataaaga 600
aatccttaa atcaaaaaaa aaaaaaaaaa 630

```

<210> 1207

<211> 755

<212> DNA

<213> Homo sapiens

<400> 1207

```

ggtaacaaca aaatttggtc ggacatcaac aaataaagta aagtgtcctg tatttggtgt 60
taggcatagc atggaaaacc tttttgaaaa gaataaaatc cgagcatcca tatcttataa 120
gtggactcca gaaggaagac gcttgggtcac tggagcttct agtggggagt ttaccctgtg 180
gaatggactc actttcaatt ttgaaacaat attacaggt caccagagcc cagtgagggc 240
catgacgtgg tcacataatg acatgtggat gttgacagca gaccacggag gatatgtgaa 300
atattggcag tcgaacatga acaacgtcaa gatgttccag gcacataagg aggcgattag 360
agaggccagg tttatacaca atataccatt ttctgtagtc cctattgtca tgggttaaatt 420
attctctaag tgtattcttg gtgcagagat gcatgggctc tgtcagtttc tgggaaactt 480
tctgcaccct ataaacacaa ttttttctt tgttttcaca cattcaccat tttgctggca 540
cctttctgaa gtagtgttgt cccggtatca gcctttgcaa tatgttagag atgtactgtc 600
tgccgcattt tgcactgggt ttctcttttc atttatgatt aataatgtgt atacgttatt 660
cctttttatt atctactgtg taagacaaga atatttcatt ccaaataaag aattcagtct 720
ttaattatgc aactgaataa aatctaaagc ctaaa 755

```

<210> 1208

<211> 600

<212> DNA

<213> Homo sapiens

<400> 1208

```

accaccctga acatgcctga gcttgtcata atatgttgag tacccaaaag atttgtttat 60
attgttaatc ttagggaaaa aaaattaaaa tccagtagat cagaacatca ggctttcaga 120
tacaaaattga tttactgggt tttatttttc tgattataat atttgggata tttaaggtaa 180
tctagttaac tagatgctat ttcatagatt atattgaatg atttaaaact ttattttcaa 240
ggatagttta ttttaaatgg catattgaaa acatcattat taagatccag taggtaggac 300
atttattgga ttaaaatgaa gcatttatct atgtcttttag gtgtcattgt tccctttctg 360
aattagctgt acatataagc cttccttttg ttttaagtac tgattttttt ttaaaaaaaa 420
gagggactgt ttaccattct tccactgtgc tgttataaag ttgtatttga aaggtaatgt 480
tgtttttatt aatcttttgt cttaaaaataa tttaaagtgc tttgaatttt aaaacattaa 540
acaaatcctt aaataacaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 600

```

764

<210> 1209
 <211> 783
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (75)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (230)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (246)
 <223> n equals a,t,g, or c

<400> 1209
 tgcctacgat tcccgcactg cccatgggga acgaatccta tatcgctgag cgcttggttag 60
 ggaatgtgga ctgtnaccct gagagtcgtc cttccctctg cctgagtcct tgagcgaaaa 120
 tattgaatag acagcaattc ctgaagtcta aacgcctccc aggactacgg aggattattg 180
 gaaagagaac aagcgaggag atacaatctt caaggactaa atgggggaatn acttttttagg 240
 ggtcantaga tgattgatga ttgattacta taaactgata atatgaggcc aaaactaaaa 300
 gttggaagag tgagcaagta caatggtttg ggagaggcaa tgaagaacaa agaaggtgcc 360
 agcccytact ccagacgctg tggtaccact ggtttggcag gaaaaacaat catcatttga 420
 gagggccagt ggggaagccc tgtcctcatg gaaaagctat cttctttcgt ttacactttt 480
 catggtatta tgtctactga agaggtaaaa acaccaaatt tcagagaagc tcttaaattg 540
 cccaatactt caaagcaagt ataactggtg aagcgcttgg cattgatgtc agacacccaa 600
 tgcctatgat ttattttaat cagtagcatt aaggaggatc ctatacgtga aggaacatat 660
 tttattttct tcctttatat tttttggtta aaatatcgtc attatagtta gcaattttgga 720
 atctggctta cattggttga tacaataaa taatagaata aagcaaaatc agaaaacaaa 780
 aaa 783

<210> 1210
 <211> 575
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (561)
 <223> n equals a,t,g, or c

<400> 1210
 acccaatttr ggtatgactt ggaagtgcag aaacagargg atactgttag aaaawcctaa 60
 cawtgggtctc cgtgcatgtg ttcacacctg gtctcactgc ctttccttcc cacagacctg 120
 agtgtgaaag actgagagtt gaggagttac tttgtggatc ttgtccaaat ttagtgaaat 180

765

```

gtggaagtca accagaccaa tgatggaatt aaatgtaaat tccaagaggg ctttcacagt 240
ccacaggggtt caaatgactt gggtaacaga agttattctt agcttacctg ttatgtgaca 300
gtgatttacc tgtccatttc caacccaaaa gcctgtcaga aagcattctt tagagaaaac 360
cactttacat ttgttggtta actcctgata gctactctta agaataataca tgtatgtatt 420
cataggaaca tttttttctca atatttgtat gattogetta ctgttattgt gctgagttag 480
ctcctgtgtg cttcagacaa aaataaatga gactttgtgt ttacgttaaa aaaaaaaaaa 540
aaggggggggc ccccctaaaa naacccaagc ttac                                     575

```

<210> 1211

<211> 575

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (479)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (515)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (520)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (526)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (545)

<223> n equals a,t,g, or c

<400> 1211

```

gggccgcggc ggaccctcgc tgccctacct ctctcgcggg ttagtgcggg gtcgggctcg 60
gccagtcctg gccagctccg ggagagcctg gcccgaattc ctgcctccac cctctttctc 120
gccgcgaagg tgactgttcc ttttgcccca gccctctcag acccgccccg gattcccagg 180
catcgggaga cgcggaaaagg artgggggtct ggtggaggcc ccgggcgtat cgctctccag 240
gccgccctcc gcgggcctgc cccggccacc gctttaacgt cggagagaag gaattgggga 300
gaaaargttta agagcctgcg amttcgttgc tgaacttttc ccccccaaga caggcttccg 360
aaagctgcgc cactggaggg atccgggacc tcagactact cgggtttggc cctggcatgt 420
gtgggagcag tttttattag agagaatgct caatttgcaa gttaatttca agtcttcanc 480
cacgtcagga aaaaaacatg aaggaattaa aggangccan gcccgnccaa agataacaag 540
gcgtncaaaa acttggaat ctataaaccc tggcc                                     575

```

<210> 1212

766

<211> 523
<212> DNA
<213> Homo sapiens

<400> 1212
aggttttttag gaacacaagg ttagtcagga cgtggatccc cacagtggac acgactgccc 60
caccctgccg aggtcggagg tggccatgag gagatgggct gtcgcttgct gtctgagctt 120
ccatccacga atgggtgtggg agttcrggat cttcccagac attstttctt cacccttggg 180
aagatggagg gggacggtgg tggcatccct tgcagtctgt gctgcgctga cactttggag 240
aagygtctcc catctgtaga gcagaatcct ctttgagaa atgcagctgt ccttgacctt 300
gaggcagaag gcgtytccat cctgggcatc tgytgcccc tccccatctg gatgcctcat 360
cttgctgtgt cattaatggt aatcttattc taacagcctc ccatgcatca actctatcag 420
tccccgaata ttatctttaa attttgtcag atcgctttgt gggtttctgg ctttttctct 480
tttctatcaa gctattcaaa gcaaaaaactg aaagtgaatt tag 523

<210> 1213
<211> 752
<212> DNA
<213> Homo sapiens

<400> 1213
gagcccccttg gccagctct tcttgagag agaaggtgct tctttgcaa aacctaagcg 60
cctaactctgt tgacatccct tggggctcta gtagaagggc ccccttcttt gatgcagtta 120
tgccgcctta gaattcggaa gtgttttgga atccagcagc atcataagat aaccaaactc 180
gtcctcccag aggatctgaa acagtttctc ctacatcttt aaatgcatct aggggaatgga 240
ttcacaaaac atgtgaaaac attattgagt gttgtagcca ctagaatttt aaaatcaagt 300
tggatttata gagtttgact agttttttcg attagatttg tatttgttat aaacttgttt 360
atggagtttg actaattttt tctattcaat ttgtatttgt taaactcaag ccagggtkga 420
aagacactgc atacgtttgt attattagtt agaaggcatg aagacttttt tccctgcwtg 480
gagagtgtca taagttattg ttttgcatat ctactgcatg ccaagcactt tctgcatcat 540
ctaatttagc cctcacagcc actgggtcaa gatgtccaat tttccagagt aaggatagag 600
gagtcaaat caaatacagg ttttctgaca ttaacttatg tgatgacttg atcgaggcag 660
gcttttccag catcactgtc ctggttccat ctctgctata tgggaatgaa aataaagaaa 720
catatttctt ggcttgtcta aaaaaaaaaa aa 752

<210> 1214
<211> 1088
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (158)
<223> n equals a,t,g, or c

<400> 1214

767

```

gcgncgcgtc gcccggaacc tgaggctgct gggcccaccc tcccggaacc gtccgaccct 60
cggtggcctc ggctcgttct gccatctccg gtcctaccct ggggcggagg gtggaaggca 120
gcttccgctc aagaggaggg ggctgcggtg gccaccgngg cggagscga gttattttac 180
caagaaaatg gtttgcacga ctttgaacat atactatcca tgctgatggg acaggatcca 240
atatgaatat aaatgatgga ggaagacgac gctttgaaga taatgaacat acattacgga 300
tatatcctgg ggctatttca gaagggacaa tctactgtcc gattcctgcc agaaaaaact 360
ccacagctgc tgagggtgatt gagtctctta taaacaaact tcactttgac aaaacaaaat 420
gttatgttct agcagaggta aaggaatttg gtggagaaga atggattctc aatccaacag 480
attgtccagt tcagcgaatg atgctgtggc cccgaatggc tctggaaaat cgcttaagtg 540
gagaggacta ccgcttcctt ctgagagaga aaaaccttga tggatcaatc cattatggta 600
gcctgcagtc atggctacgg gtaacagaag aacgtcgcag gatgatggaa cgggggttttc 660
ttccacagcc tcaacagaaa gactttgatg atttatgtag ttacctgat ttgaatgaga 720
aaactctctt agaaaaccta cgaaatcgct ttaagcatga aaaaatttat acctatgttg 780
gcagtattct aatagttatt aaccattca agtttcttcc tatttataac cccaaatatg 840
tcaaaatgta tgataaccac caactgggaa aacttgagcc ccacatttat gctgtggctg 900
atgtagctta tcatgccatg cttcagcgca aaaagaatca gtgcatcgtg atttcaggag 960
agagtgggtc tgggaagact caaagcaca aactttcttat tcaccacett actgctctca 1020
gtcagaaagg atttgccagt ggagtagaac agattattct tggagctgga ccagtacttg 1080
aggccgtc                                     1088

```

<210> 1215

<211> 382

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (334)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (344)

<223> n equals a,t,g, or c

<400> 1215

```

tccgtacttg aggagacggg acacacagga caagctgcag gtggtgagca ggttcacctt 60
ctattttgaa gacccgcttc ttcttcaggt acctgatctt gaaaacgaac ctcccccttc 120
aggctcttgc tcccccaaac ccagacaccg actcgcccaa gggctctcca gctggctgag 180
ttggaacctg catTTTTTaa ccacaaggaa aagaagccca gagcttacca agaataatat 240
tttattgact tgggaatgag ttttggaaatc tgtattttta acaagctgcc cagtgaaaac 300
catttcctcc tcgtcgtggc gcagttccag aggntgcgcc attntttccc aggtcaacag 360
tcctgtgtcc ttgggggagg ga                                     382

```

<210> 1216

<211> 825

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

768

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (155)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (693)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (735)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (814)

<223> n equals a,t,g, or c

<400> 1216

```

cncactatag ggaaagctgg tacgcctgca ggtaccggtc cggaattccc gggtcgaccc 60
acgcgtccgg cccgacgtcg cctccggcta ggatggcccc tccgggcccc gccagtgcc 120
tctccacctc ggccgagccg ctgtcccgca gcatnttccg gaagtctctg ctgatgctct 180
gtctccctgt cactgccctt tacgtcttct actgcctggc cgagcgctgc cagaccctgt 240
ccggccccgt cgtggggctg tccggcgggc gcgaggaggc gggggccccct ggtggcgggc 300
tcctggccgg accgagggag ctggcggtgt ggccggcggc ggccacagaga aagcgccctc 360
tgcaactgcc gcagtggcgg msgcgycgrc sgcccgcgcc ccgcracgac ggcgaggagg 420
cggcctggga agaagagtcc cctggcctgt caggggtccg ggcggctccg gggccggaag 480
caccgtggcc gagggccccg cggggaccct ggcgtgtctc ctggacgaag gcagcaagca 540
gttgccgcag catcatcatc ggaktgaara agggcggmacc gcgggcgctg ctggagttcc 600
tgcgcgctga ccccgacgtg cgcgcctggg gcgcggagcc ccacttcttc gaccgcagct 660
acgacaaggg cctcgccctg taccgggacc tgntgcccag aaccctggaa gggcagatca 720
ccatggagaa gaagnccagt tattcgtaaa gcgggaagcc cccgcgcgca tcttgggcat 780
gttccaagga caacaagctc attcgttggt tgtncgggaa ccggt 825

```

<210> 1217

<211> 517

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (432)

<223> n equals a,t,g, or c

<220>

<221> misc feature

769

<222> (433)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (488)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (502)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (507)
 <223> n equals a,t,g, or c

<400> 1217
 gtgaaaaaaa actatagtac acctggttatg agactgtcac tttgtacatt gttgagtttt 60
 tattatccac ctgtagacta gaggggacca tgaattcttc cactttcttc aatcccattt 120
 tctaccatgg aatcactaag agcaaagtct gctctgttcc tgaagctcta taagctacag 180
 atggataact caatgtaaat ttcattggaa aacactcatg cctaagggtgt gggccactca 240
 gagctcacca gtatgttcaa cactataact agagacactg aaactgcaaa ccaggacaag 300
 aaattgacaa cttcacgctg tagacagctt ttccaagat gtcagaacaa gacttcctac 360
 catgatgagg ctccaccctc tcttaatttg cctagctcat gcctgcctct ttcacttgca 420
 ggataatgtt gnnattagaa tttcacagga agtatcttct gaagggttagc ttaacagaag 480
 tatcagantc tatgatatca cntaccnaaa tttttac 517

<210> 1218
 <211> 774
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (19)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (63)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (67)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature

770

<222> (753)

<223> n equals a,t,g, or c

<400> 1218

```

ccgacttact ttagggaang ctggtacgcc tgcaggtacc ggtccggaat tcccgggtcg 60
acncatncgt ccgaccaccc aaggggtgagg agaggggctg gaagccctgg gcattaggag 120
aagggagtggt gtgctggcat ggacatgact ggatagaatt ttctcaggag ggagcttggt 180
ggattttgaa ggtaaaactt tctgggttta tcatgtttta attttagaga cagggagtga 240
tgaatcatca ccggttgccc ccttatctaa ctccataaaa gtgggaattt caaaagaaca 300
cctcatccaa ggagctgggg cagacttcat tgattctaga gagacctgtt tcagtgccta 360
ctcatccctg cctcttggtg ccagcctcct taccatcacg gcttcaactga ggtgtaggtg 420
ggtttttctt aaacaggaga cagtctctcc cctcttacct caacttcttg gggtggaat 480
cagtgatact ggagatggct agttgctgtg ttacgggttt gagttacatt tggctataaa 540
acaatcttgt tgggaaaaat gtgggggaga ggacttcttc ctacacgcgc attgagacag 600
attccaactg gttaaatgata ttgtttgtaa gaaagagatt ctgttggttg actgcctaaa 660
gagaaagggtg ggatggcctt cagattatac cagcttagct agcattacta accaactgwt 720
ggaagctctg aaaataaaaag atcttgaacc canaaaaaaaa aaaaaaaaaa aaaa 774

```

<210> 1219

<211> 556

<212> DNA

<213> Homo sapiens

<400> 1219

```

gttttagcaca aagaaaagcc atcttggtgc aaagaggctt taaattacta tggactggca 60
gtcaatcaaaa atccaggaat tgatgtctga tgatcagaga gaagcaggtc ggattccacg 120
aacaatagaa tgtgagcttg ttcatgatct tgtggatagc tgtgtcccggt gagacacagt 180
gactattact ggaattgtca aagtctcaaa tgcggaagaa ggttctcgaa ataagaatga 240
caagtgtatg ttccctttgt atattgaagc aaattctatt agtaatagca aaggacagaa 300
aacaaaagagt tctgaggatg ggtgtaagca tggaaatgttg atggagttct cacttaaaga 360
ccttttatgcc atccaagaga ttcaagctga agaaaacctg tttaaactca ttgtcaactc 420
gctttgccct gtcatttttg gtcatgaaact tgtaaagca ggtttggcat tagcactctt 480
tggaggaagc cagaaatacy cagatgacaa aaacagaatt ccaattcggg gagaccccca 540
catccttggtt ggttttt 556

```

<210> 1220

<211> 148

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (142)

<223> n equals a,t,g, or c

<400> 1220

```

gtgtttaatg atctgtaaaa ttagattat cttcttttat tatgaatgtg attgtaagaa 60
acaccctaac attctctaac ttttgaaaat gaatattttg tatttctaag gamcaaggaa 120
aatatttttt aagccmatgt antacaca 148

```

<210> 1221

771

<211> 329
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (272)
<223> n equals a,t,g, or c

<400> 1221
ggttttttcgc agcgccgggt gtgttcgggt aggtgttgcg ggcaaggaag taggcagcgg 60
cccctgagca gccgcctcgc tccggcattg cggggacacg gcggggctga ggccacgaga 120
gcaggggcccg agcccggcgg gccgtgggta cggttttctt gcaactgaaa actgaatccg 180
gcccgaagcg acgtgcactt tatgggtcccc acaccactcg gttaactaag aaaagacccg 240
ggcgaatgga cctaacgcaa cccgggtgcc anagggcccg gtccagcagc ctctgggggc 300
cartgcgcag ggcaactgcgg gccgattgc 329

<210> 1222
<211> 480
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (462)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (471)
<223> n equals a,t,g, or c

<400> 1222
ggcagaagct tgaggtcctg aacgtgctac gcaacccctt gtctcgtgtg gatggggcgc 60
tggccgcccc ctgtgacctt gacctgcagg ccgactgcaa ctgtgccctg gagtcctggc 120
acgacatccg ccgagacaac tgctctggcc agaagcctct gctctgctgg gacacaacca 180
gctcccagca caacctctct gccttcctgg aggtcagctg cggccctggc ctggcctctg 240
caactatcgg ggcagtgggt gtcagcgggt gcctgcttct tggacttgcc atcgctggcc 300
ctgtgctggc ctggagactc tggcgatgcg agtggccaga agccgggagc tgaacaaacc 360
ctgggctgct caggatgggc ccaagccsgr tttaggcttg cagccacggg acggmagccg 420
kagcgcccc aagccccaag tkgccgtgca ttcttgcccc tncacttccc nactattgag 480

<210> 1223
<211> 1299
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1254)
<223> n equals a,t,g, or c

772

<220>

<221> misc feature

<222> (1267)

<223> n equals a,t,g, or c

<400> 1223

```

gctggccaag gcgctgcggc ccaccaaagt catcttctc aataacacag gcggcctgcg 60
cgacagcagt cataaggtcc tgagtaacgt gaacctgcc gccgacctg acctgggtgtg 120
caacgccgag tgggtgagca caaaagaacg gcagcagatg cggctcatcg tggacgtgct 180
cagccgcctg cccaccact cctcggccgt catcacgcc gctagcacgc tgctcactga 240
gctcttyagc aacaaggggt ccgggaccct gttcaagaac gccgagcgaa tgctacgggt 300
gcgcagcctg gacaagctgg accagggccg tctagtggac ctggtcaacg ccagcttcgg 360
caagaagctc agggacgact acctggccyc ctgcgccgc ggtgcactc catctacgtc 420
tccgaggggt acaacgccgc cgcattctga ccatggagcc cgtcctgggg ggcaccccg 480
acctggacaa atttgtggtg agctccagcc gccagggcca aggtccggc cagatgctgt 540
gggagtgcct gcggcgggac cttcagacac tttctggcg ctcccggtc accaacccca 600
tcaatccctg gtacttcaaa cacagtgatg gcagcttctc caacaagcag tggatcttct 660
tctggtttgg cctggtgat atccgggact cctatgagtt ggtcaaccac gccaggggac 720
tgccagactc ctttcacaag ccagcttctg acccaggcag ctgaccttca ccatggacac 780
tacaggccct ggaatggcca ggggtggacca aaagccatgc cagctgggca tgaccccagg 840
cagccagcca caggtgaag ggggcttgtt ggctgagtga tctgcagagg agaaagcagc 900
cccagctctg cccagaggag gcgctgaagt gggacaagca caggaaagaa ggggaccagt 960
ctaggacccc aacttgactc actctaaagc tacaacccaa tggccttcga ttttcaacct 1020
ggggattagg ggaggggagg gtgccttcca gggctctact caggactaac cctaagggtg 1080
agctagtttc tgtgcctctg tgctatgttt tgaggctccc ttacccaaaa taataccctt 1140
gcctgcgtga tattctacca ttcatTTTTaa ttcttttggg tcttgagttt tttcaggagg 1200
ccttgattaa aatgcaaata cttgtctgag aaattccgct tacactttga aaanaaaatt 1260
aaaattnacc cccttggaaa caaaattttt tttttttt 1299

```

<210> 1224

<211> 1062

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1047)

<223> n equals a,t,g, or c

<400> 1224

```

tccagagaga aaataggccg tgtctcaaag aaaggttctt ggtctatgcc tctggtctgt 60
gggctggcar ggcaaccata ccatacyccc gccagtcctc ggctcctgct gcaaagttgg 120
catgtttcac agggaaaactt ttggaagagt ggctgcttat gagattccaa aatgaagtgt 180
tgccaacac cgctcatggc catcctggat tttcccagtg gcttcccttc ctgctcgcct 240
ccctgaacag gggagaaaagc ttaacctctc ttctcctctc caaaccttcc accttgaatg 300
ggtaatgttt ggtgggggct gttccttctt ggagaagcct tgagtcggac cattttgaga 360
tcatggagga aggatgaaga agtgaaaatg acaataatga ctctcaagag gctggcgatg 420
tgacatggca aatgtagaac tgacttaaat tgaacaaacc ctactgagc acctctgatg 480
ttgagcacct gctgaatact gagcactgaa tgggggaggg ggaggggagc acggggtgag 540
tcaacctggg actcgggtctc agggatatgc ctaccaatag cgggtatcgt aaggcatgta 600

```

773

```

cccaaacata acggatgtaa ggcagaaagt gatcggagaa ggaatgagaa agtgtgcgtg 660
atgttaatat aaagtcatat gcagctagag cagacccagg aaagctttct ggaagagatt 720
gcattctgagg aaattcagga aggatctttg tagattgggg ggagattcta aattgaaggg 780
gtgatrgggg gaggggccag agggaagtct gctgtgttct catgtaggat gtcagccctc 840
cctgcaactt ctcttttttg ccaatgtctt ttcactttcc tgacccttta gaatcatccc 900
cagccagacg caatcatgga agttgcctta ttgtcactgg ttaagaactt ggcgagattg 960
aagggtcttt gttattgttg ttggatatatt ttgtttccca taaaagcaca tcatttcaac 1020
cctaaaaaaaa aaaaaaaaaa aaaaacncgg ggggggggcc gg 1062

```

<210> 1225

<211> 608

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (561)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (596)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (602)

<223> n equals a,t,g, or c

<400> 1225

```

aaaaatggga tgaaccttgg tataacccaa aaacagaaca tcaaagaaat agcagtaaga 60
ttctgagatt tatttcagac ttccttgctt ttttggttct ctacaatttc atcattccaa 120
tttcattata tgtgacagtc gaaatgcaga aatttcttgg atcatttttt attggctggg 180
atcttgatct gtatcatgaa gaatcagatc agaaaagtca agtcaatact tccgatctga 240
atgaagarct tggacaggta gagtacgtgt ttacagataa aactggtaca ctgacagaaa 300
atgagatgca gtttcgggaa tgttcaatta atggcatgaa ataccaagaa attaatggta 360
gacttgtacc cgaagaccaa caccagactc ttcagaagga aacttatctt atcttagtag 420
tttatcccat cttaacaact tatcccatct tacaaccagt tcctctttca gaaccagtcc 480
tgaaaatgaa actgaactaa ttaaagaaca tgatctcttc tttaaagcag tcagtctctg 540
tcacactgta cagattagca ngttccaaac tgactgcact ggtgaggtcc cggcanccaa 600
cnggcacc 608

```

<210> 1226

<211> 889

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (850)

<223> n equals a,t,g, or c

774

<220>
<221> misc feature
<222> (882)
<223> n equals a,t,g, or c

<400> 1226
atccatttta ggtactctac tgactttttc cttcacttgc caagcccttt tattgttcac 60
tgttagaaaa atagagaagg tgagacagct gggggaaaat gtggagtaaa tgataatcaa 120
atgttgaatt ctaaaagtct ctacatttac ctaggttggc tttctcccc agttcagaag 180
tttccagctt ggccaatcat cagaatcact tgaggaactt agaaagaact ccctggctgt 240
agctcctatg taggtttagg ttgagactct ggattccaca atttttaaaag gttaccatct 300
gaggtttctg atcatagtct acttttgaag cagctgctgc trtttcttta ttccattgaa 360
cacckggaa ttgacataat tttatctatc agcatttctc cccttttagt ttatttaata 420
attaacccgg tctccagggc agttttcata tgaccatgtg tatattcact gctcacgaaa 480
aagtttaatg ttgattacc aaatttaata tagttacaga attactgcat aagggcttcc 540
cttcttgagg actcttacc agcatgggaa cagtgatctg cccacatgac agggtggtat 600
gccaggcata gttactgct tttggttggt aggtactcat cttccttttag ttacccttag 660
ttatgtggca cacatgtcct tattgcctag ttcgtcatcc acactttgga tcttgtgaaa 720
atgctgttag tatccaacct taaaatatat tagtatatgg gtttttatta aaagaattac 780
tttgaatttt ctatttaatt catatgtaaa taaaggaaca tttcatttca cttaaaaaaa 840
ttatatcagn tattaagctg ggtgcaagtg gctcatgcct gnaatccaa 889

<210> 1227
<211> 739
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (678)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (693)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (730)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (736)
<223> n equals a,t,g, or c

<400> 1227
ggcacgaggg gaaatgcttc tgccgcaagt ctactctcac gacccacctg aggacccaca 60
caggagagaa accgtatgaa tgtaatgagt gtggaaaaatt cttctctcgg ttgtcatatc 120

775

```

tcactgtaca ttatagaact cattcaggag agaaacccta tgaatgtaat gratgtggaa 180
aaaccttcta cctgaattca gccctcatga gacatcagag agtgcacaca ggagagaaac 240
cttacgaatg taatgaatgt ggaaagttaa tctcccagtt gtcatacctc actatccatc 300
atagaactca ttcaggagta aaaccctatg aatgtagtga atgtgggaaa accttctacc 360
agaactcagc cctttgtaga catcggagaa tacacaaagg agagaagccc tatgaatgct 420
atatatgtgg aaaattcttc tctcaratgt catacctyac tatacatcat agaattcatt 480
caggagagaa gccctatgaa tgtagtgaat gtgggaaaac cttytgscag aattmagccc 540
ttaatcgaca tcagagaaca cacacaggag agaaagccta cgaatgttat gaatgtggga 600
agtgccttctc tcagatgtcc tatctcacta tacatcatcg aattcattca ggagagaacc 660
tttgaatgta tgagtgtnga aagccttctc tcnggtgcat acctcactgt acatatagac 720
ccttcagggn gaaccnatg 739

```

<210> 1228

<211> 491

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<400> 1228

```

ctttgttnca ttgcccattt tgaaaaaggg aattatttct cagtctttca aggccttgaga 60
ctaataatagg ccattgtgat tcaggaagaa acccaaggtt ggagggtggg atgagtaccc 120
tctgaaaaag ggaatttgcg ggtgaaaaga ggctggatct tgtggaagac tgtcttggat 180
ggggaagtac tacctggaga tttcaaattc acttggcctg caaacaacag agttatccgt 240
atcttccaca tgtgaatgtc attgcaaggg tgactctaga caaactacaa accgatggac 300
cgtcaagctc cccaggagcc ccttggatgg cagcgttgcg tcagagtgtt tctgttttct 360
ggaattcctt gttagggaac tttaaaagaag aaaagaaaaa cttgaattgt gttgaattac 420
tgtatctttt actttttttt tttgaaaaga taaacttgta aatagagtga tttgaaatac 480
taaaaaaaaa a 491

```

<210> 1229

<211> 1596

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<400> 1229

```

cactggcggg tcgcaacgct gtgggcgttc caggaggtgg tcgtggcgaa cctggcnget 60
gcatgagga aactgaggcc ctgagaattg actcattcag atcacttccc atgatcacgc 120
agctgagcag tttccaatac agaattcaga tttgggggttc cctacttcsa atccaggtct 180
ctgtgctcca cacttgtctt tcgtgctcca tgtttgaaga aattaatatt gtggaagaac 240
agttttaagg cttagaggaa cttgarttag gatccgtact tggcagatga ggaaattgat 300
tctcatggat gtaaatcac tgtttgaggc cacaacaggg catcatggag ggaggcttga 360
agaggaaaaca ctctgatttg gaagaggagg aggagaggtg ggagtggagt ccagcaggcc 420

```

776

```

ttcagagcta ccagcaagcc ctgctccgca tctccctaga caaagtccag cgccctgggc 480
ccccgagcac ccagcctccg caggcatgtc ctcattccata acaccctcca acagctgcag 540
gctgcacttc gcctggctcc cgcccttgcc ctgccccccg agccctctct cctgggogag 600
gaggatttct cctgtcagc camcattggc tctatcctca gggagctgga cacctccatg 660
gatgggactg agccccctca gaatccagtg actccccctg gcctccagaa tgaagtgcc 720
ccccagcctg atccagtctt cttagaagct ctgagctccc ggtacttggg ggactctggc 780
ctggatgact tctttctgga cattgacaca tctgccgtag aaaaggagcc tgcacgggcc 840
ccaccagagc ctyctcacia cctcttctgt gccccagggt cttgggagtg gaatgaactg 900
gatcacatca tggaaatcat tctggggctc taaaactgtg atagagggga tcgatccttc 960
ctcatgtcat cttcgggtggc ctggatccct gaatgcaact ctgggtgtgt gtttttgtgg 1020
gggctcgaag cagtgactat ggctccttt gttccattt cagggttcca caaactgtct 1080
tgcattgtgt tgtgtgtctg gttaccccca ccttctgtga aggtgggtct tctgaatta 1140
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cacatttctt ccacctttcc tgctagttcc cactccccctg tgaccactgg ggctcaggg 1260
aagataaaga aagctgggcc tgtcgaagga tgacagggat gtgctgccag gttgctatag 1320
aaaccaggc tctgcctctt gcaccttgag ggggtgggag gggctgggtg cctccctcca 1380
ggctgaaccc cacttctctg gcaggacccc agtctcagca gcctcctgat ttcataacca 1440
ggccggacca cgtgcaatag ggtggaaacc aaactgctcc atgccgggtt atttaaaaga 1500
aaggcagagt ttgtggtggc tttttttttt ttttttggat tgtttgtaat ttttttaaat 1560
aaaagtattt tggaaggaaa aaaaaaaaaa aaaaaa 1596

```

<210> 1230

<211> 580

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (536)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (554)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (563)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (578)

<223> n equals a,t,g, or c

<400> 1230

```

cctcgagtag cacttttagtg aggctgtaag tacaggaatt attcttacct cacagacaga 60
tgagcagttg ggcttctaaa agataaagta agctccctga aatgacacag agaattcattt 120
ctctatgaaa gatcagggtc agcatccagg ttttgcaaaag cccaactcag tgtacttttc 180
atctcatctt acgttgctta agaaggccag gcatgtaaca ggtaccatct gctagcgatc 240

```

777

```

actgaatgca ccttggctag cgggtgggggg tgtagaagat gatgcggggtt caccaagaca 300
gtacattkga gaaactgcc a ttctttccct tagrtgctga ctggaaagct tctagggccy 360
awctgtgtgc cttattcagg grgacycata aagatcttgg aaagtgtaaa tgaacatgtt 420
ttatgagtag aaatgggtcca caatttagca gatagaaagc ctgggttcta gccccagctc 480
tgccattagc tgtgtgatca tagataaatt ctttccccctc ttgaggtttg aacatnactg 540
actctacaaa gaancaaatt ggntctggaa gtggatanca 580

```

<210> 1231

<211> 1676

<212> DNA

<213> Homo sapiens

<400> 1231

```

ggtttcaaat atgtggtaaa attctgtgac ctgccatatt ggatttaaaa cttcatcttc 60
atcttaaaac ttcactctttt gaaatctctg aaaatcatta gtgtgcatgt attgaacacc 120
agtctttatt ctgtaattaa cccccagat ttctttcccc tcaccttatg ccatccatct 180
gtgtgttttg tttccagtat gccatgtgga agaggtgtga gcctttcttc agccaagaa 240
ggaaacttta aacataatttg cacaataaaa tttcaaatta aacatttcaa aaaggggtgt 300
cagactagaa atacatgctc ttctgaaatt ccatgttgca actgtaactc ctgtcatata 360
taccagtggt atgaggaaaa gttcttgcag ttttcacact gcccttctgt attgctgcct 420
ggctgtgctc tgttgttgga actgaaatat gaaattttta ctttgaagta tgtaaatgtc 480
aaagttgatc gtattaagtt tkgaaatcct ttgaggttta tctaataagt gtgttgagac 540
ttctgtctct tctggtaata ctgtaccctg ttgaaccaag aacagtttta ttgtttgtgg 600
gacttcgttg gtttttctaat accataacct gtgtccctgt gcagtcaggg ggtcacttct 660
ttaagatcat gtataatacg gcccgtcata tacacgtaga tagagccatg tgattccaga 720
aattagaaga ctggatctgt ggaatccata catgttaaaa ttttgccaaa atgagatgat 780
taaaattttt gtgagtttta taaactgttg cagttcgcct tactgatttt tcaatgataa 840
tcacttttat gggaagggggg cttaggaaca aaaaactttg ccaagaatgc aaaatcttac 900
tggtttttta agcttgtaac agttgtgtgt aaaactttta tatttgaaac gtaaaactcac 960
cctttctgcc actgctttca ttgcactttt cataccaagt tctctccaac gtgggtgtctg 1020
aaagattttt attatataca ctctttatgg aattcaatga agtgtgggta tgctgtgttt 1080
ctgaagtttt taggcttttc ttcatgtgcc tgccataatac tagtgtgttt ctataacttc 1140
agatgattca aaagtttagt gcttcattgt agcaaaaaat gtatataact cataatatcc 1200
tacatgtagt attcaaaatc aattattaat aaccaataaa ggactcaaca cattttcatt 1260
gcgtgttctt ctttaagaca cctaaactca tatctcataa tttctgaatc cgcaatccct 1320
attcattaat tgattacagt ttttgagttg ttggaaagcc tagccctctc agattcaggg 1380
ttcagaaaaga attaccaggt ctggtaaaaat tgtctgacta gcccttagcc tcagaatggg 1440
caacttcata gtataagcaa agaaagtggg gatctcatat agtcagcttt ttcattgaaca 1500
ttaattcatg gtgaatgcac tcacagcaac caaaatccaa aaaaaaaaaa tgttcatcta 1560
aaaccttaaa cattagcttg gctcattgag ttcttggtag aacctgcttt tcatatgaca 1620
cagtatcaaa catgatttca gatgaaatgg gtgggtgtta tattgtgtta aagaaa 1676

```

<210> 1232

<211> 394

<212> DNA

<213> Homo sapiens

<400> 1232

```

attacaggca tgagccactg tgccccgcct tcctttcttt ttaataagtg tatgtatctc 60
aaagccattg ccttctctag aaatctgttt ctctgttctg gaagagccta taaactttgc 120
cttcagttgt ttttcttttc aaaagggaac accagtggtg gatgattaac tcttatttat 180

```

778

```

ttttaaaatt taatttggat ctatagtcag tatctgagat ttataggatg aactttgggt 240
tacaaggaac agtgtagtta aaaagttagg gtgcctatgt tcttatgtaa tcatcaacat 300
gtttgttgta taatcatcaa ctttttctg aatgcaatga tgaacatttc aaacaataaa 360
tgaaaatgaa actaagtatc aggaagtagc cagt 394

```

<210> 1233

<211> 501

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (362)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (453)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (483)

<223> n equals a,t,g, or c

<400> 1233

```

cttacatcta ttttgattga cttgaaataa aatttaacac ctcaggggaag gcaatttctca 60
tgtgttttga attatactga gcattaattc ttcaggataa ttatagactt ggaaagggtt 120
aaccaggtct cccagtcctat gctgaagttc ctttaagtga taggaggaac tcataatcta 180
caaggcaacc caatccattt ggtgctacca tcgattgtta taaagcccat ccttgggtta 240
aaatctacta tttacagttg tatttaatga ccttaattct gccctcaagc tatataaaat 300
ttggakctgt kttctacatr ataatctttt agatawctta aggtagttag totatcctct 360
cnacccttcc cctcacagtt ttccaccct ttggagataa atatccttcg ctattccaac 420
tatttctcat atggtatcat tttaatcatc ccnattgctc cctaaggatg ttaaactttg 480
ttnatgtccc ttccaaaatg t 501

```

<210> 1234

<211> 361

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (333)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (337)

<223> n equals a,t,g, or c

779

<400> 1234

```

cagccccggc gtccgccccg ctgccccctc ccccgggggc catggggggcg cccccgggct 60
accggccctc agcttggggtg catctcctcc accagctgcc ccgcgccgac ttccagctcc 120
gcccggtgcc cagcgttttc gcgcccaaga gcaggaatac cagcaggcct tgttgctggt 180
ggcggccttg gcgggccttg gcttgggcct gaggctcatt ttcacgctg tctacctcat 240
ccgcttctgc tgctgccggc cccccgagcc ccccggggtc aagatccctc cgccccgggg 300
aggctgcgtc acctggagct gattgtcccc ttntcgnccg ctgcactggc attggcatcg 360
g                                                                                   361

```

<210> 1235

<211> 548

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (545)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (548)

<223> n equals a,t,g, or c

<400> 1235

```

caaaaaaaaaat aaaaaagaac agccttttta ggccacagtg acctgcgcaa tgtttatatg 60
ctttgaccta ctaactttct cctaactaaa tatgtgattt taggagagtg tttaaataaa 120
ttacagtatg tctatatgat gaaatgttat ttgtccatta aaattttgtt tacaaagata 180
atttttattg acataaaaaat aactttaatg taatttatgt tgaaaaagct gaatacaagt 240
ctttatatag agtaatatgt gagctgtgtt caaaaatata taggaaaaga ctgataaaaat 300
gaaatatggc aaaatgttaa tagttttccc tggaatagga taataggcaa ttttaaaaca 360
gactccttta aaaaaacaaa caaacaaaaa aaacatagac ttctttatat cttttgagct 420
ccctcccttt tattatgtaa tgaatatgtg ttgcttttgt aataggaaaa taataaagtt 480
aaaatttcaa ctgcaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 540
aaaanccn                                                                                   548

```

<210> 1236

<211> 866

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (212)

<223> n equals a,t,g, or c

<400> 1236

```

tgagttcctg tgtgcctgtc acccagcccc gccacaagag gtgctggggg cagtgtccac 60
cccccccttt cttaggacgc ctgagttctca gatgtgactt ataggggtatt tcttatggca 120
agacagttaa aacaaacttc agcgtctcgt ctgtccttct atggctgtgg cttctgatgt 180
tctaattggc ttctcgtcag ccggggctga gnaacaaaat aacatagact gtgggggctta 240

```

780

```
aacagcagaa acttacttcc catggttctg gaggttggga gtcttggatc accgtgtagc 300
atggtcaggt tcctggtgag ggtgggattc ctggctaacg taacgaaggc tccctctcct 360
gataccgtgt cactgggggt gaggttcaa cacaggaatt ttggggggac acatcagcat 420
tactccatc acaggtggtt agccctttaa tccacgggaa ttttgtttgg ggttgtgtga 480
gatacgggtc taacgttttc ttttcaaact acgtagccag ttgtcacatc atttattgaa 540
aaaggaatct tttctccacc gactgacatg aaatgctacc atcatcgtaa ataaaattcc 600
cgtaaatact tgctgtctct gctgtctcag tcctgactca cgggctgagt tctctttctg 660
cacagtagca ctggcattaa ctgtgacagc ttacacagcag gtcctctccc cgaggccggt 720
cagaagcatt cctcagcggg tcctacacgt ttctctctccc atgtcaagtt taggaagcag 780
tgtcaagacc cacagcagtc ctgcgggagt ttttaagggat gcacggagtt tatggggaca 840
gtttgggraa attgacattc atgtgg                                     866
```

<210> 1237

<211> 799

<212> DNA

<213> Homo sapiens

<400> 1237

```
gaaaagtgtg gaggctaggg caggcaggtt gttaggactg aaggtttgcc cattctgctg 60
cctccatctc agctccagct ccatccccct ctccacagaa agcagttggt gacacgaggt 120
tctatacttt tcttctgttg ctctcttgac ttaacgtgaa aacaggggat atttgaacaa 180
actgtctgtc ccaggcaggg gctgggcagg gcctgtgtgc cttgctcagc ctctgacag 240
gacacttttg ttgcacttag aatttacatt ttaatggatg taaaaacaac tgtgagagat 300
gtctgggcct gcagaagtc agcattgtct aaaaaagcgt gtgttctagt gaacattttc 360
atataatatt attggttata gcctgttaaa atattttctt ttttgtatta tttatcccc 420
tacattatgt atttatatga gggaaaaaaa ggaaaaaatt gtactttttt agtatattacc 480
tgttacaaag gacattgtgt ttctgtcat gtaaaaccag ctatttttagt tactattgta 540
ctctagaaaa gagctgtaga tttatgttaa actcgtactt acgaacaatt gtaattagtt 600
ctaaaaggca tgaactcagc tcctaactgt cactgtatag tcctgaattt gtagaactag 660
agttaattcc ctcttggaac tttctttgtt cttcagtagt tacttttttc cttacctaaa 720
agggttgtct gtcaaacaat tcttgaataa actttctgtt atcaatttta aaaaaaaaaa 780
aaaaaaaaaa aaaaaaaaaa                                     799
```

<210> 1238

<211> 719

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (537)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (593)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (621)

781

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (646)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (672)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (675)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (700)

<223> n equals a,t,g, or c

<400> 1238

```

ggtattactg gagaattgtc catatttaaat ataatttaac tgtctttctg aaagaataaa 60
gaagttttta tttttatttt ctttaggttag aacaaaaccg aataaaaacta cttaatgata 120
aagctgttgc tacatcacag cttcagaaaa aacttgggca gcttctttac ctaactaatt 180
tggagaaggt attgtttcta agacatgcta ctttttcccta tgctgcatta tcataaacca 240
ctttagtgcac tcctttcata attaatggtg caaattggtg taattagtat ttggtgttat 300
atgagtcaag aacactacct atgtctctac aatagcttcr agatcacaaa agaattattgt 360
atctatagaa atttattatg cagatgatat agaaggcatg cactcgatag tagagaacaa 420
tgtaaatgga ctgtagttca aagccttgaa tagtaaaagt attaaaacat atctcggatga 480
aactggcata atgcaattta tcacatgcat tcattcatca atacaaaaat atggtgnaat 540
ttggtattttg aaactgaagt gtggttcgaa agctactaaa tcagagacat ggnaataaaa 600
ggagactcaa atattagtaa ntcaaaaacac atgtctgggt atgacngaga ttatccggca 660
ctggtgaatg gnggncattg ttaaaataat tcatttttgn cggaaaaatt tgtaattga 719

```

<210> 1239

<211> 339

<212> DNA

<213> Homo sapiens

<400> 1239

```

agtctgcctc agcctcccaa agttataaga tttttttcct ctgggttttta gtaaatgttt 60
tttttgagat tgcttagcac cagaatgatt tgcaaatgtg aaaataggaa ctccactagg 120
aatgccggat agaagagtg cttcacatttg tagagggaga caagaactaa atatcacgac 180
gtctttctga gcccttttgggt ttgctaacgt gccccaaatt cttattccaa acggtataag 240
ataattatgt gtaaatgaat accagctcta cttagtttta tttcatatgt gtgtatckga 300
tatattaaaa tatctttttt ttttttttga aaaaaaaaaa 339

```

<210> 1240

<211> 229

782

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (177)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (213)
 <223> n equals a,t,g, or c

<400> 1240
 gcaggcgtga gccactgagc ccagcctact tttmagtttt waacataatt tttgttttat 60
 ccacaacttt tcaagtattg aaagtagaat aaaaacatgg gttcttagtc tttrgctatc 120
 tgttgaagcc tatgaatgcc ttcttaaaat catgttttta aatgccttaa atatatngga 180
 ttacaaagga atcttattat tcgaaatacg gtnttaaaat gtttaaaaa 229

<210> 1241
 <211> 1075
 <212> DNA
 <213> Homo sapiens

<400> 1241
 gccccagctc gtgccgaatt cggcacgagc agtttttaac ataatttttg ttttatccac 60
 aacttttcaa gtattgaaag tagaataaaa acatgggttc ttagtcttta gctatctgtt 120
 aaagcctatg aatgccttct taaaatcatg tttttaaatg cataaaatat ataggattac 180
 aaaggaatct aattatatcg aaatacagtt attaaaaatg taaaagataa gtttgttata 240
 tattaatatg catgcttctt tataaatgca ttaaaataaga gttaatagct atcctaaatt 300
 tgaaatagtg ataagcataa tgaaaataga tgcaaaaaaac taatgtgata tgaaaatatc 360
 tgggtttttc ttttgatgat gaagtattgc taatattacc gtgggttatg aactatgttc 420
 agaattgaag aaaatcctaa ctttcagtta gaggttagtg acgggggttc ggacacccta 480
 cacaaaatac agcacittga catattgaat attttaagct gaaggcattt gaggaaattg 540
 cagaagcagg aaggtgactc tgaccttctg cctgctgttc tcccagaag cagccataaa 600
 acctgggaag gattttctga ccttccccctg aagtagatca taagactgtc atgtaagagg 660
 tgctctcctg gcacccagag aaaaaggagca tccttacctc caaaagcaca gggacacaaa 720
 gaggaatcta aacaaacagg cctctcagtt tccccagtt tattacattt agcttggttca 780
 cactttgccc tatgacattt ctacatcact ggctgctctt catcaaacct actataaaaa 840
 acattcaagt tcaactgttt ctttgggcct ttatttcctt atggagsccc tcgtgtcgtg 900
 taaaacttat attaaataaa tgtgcatgct tttctcttgc taatctctct tttgttatag 960
 agatctcagc cctaaaccta ggatggatag aaggaaacat atgttctccc ctacattagt 1020
 aaaaataaaa atggaatttt ttaccataa aaaaaaaaaa aaaaaaaaaa aaaaa 1075

<210> 1242
 <211> 336
 <212> DNA
 <213> Homo sapiens

<400> 1242
 gatgggattg tacactttct ggttctctct caagtccaac cagtatgtgg taacctgtct 60

783

```

cttccccactt catttgtggc actggtttgc agtggacaaa aggtccgtgc tcctcttcta 120
acctaatactg gactgggttg cccaaagggt gccctgccac actgccaagt gcctaattag 180
ctgtttttctc tccaacccct ccaaacactt atcatgagta atttctcttg tctttakagt 240
tgccaaatst aatctctgta aatacaaatg tggtagagact tcttctcagg agtttcagca 300
aatgaaacaa taaactcttt ttaccctga aaaaaa 336

```

<210> 1243

<211> 752

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (750)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (752)

<223> n equals a,t,g, or c

<400> 1243

```

gggtcgaccc acgcgtccgg aatgttttgg tgaataaatc tgttcttcag caaccctacc 60
tgcttctcca aactgcctaa agagatccag tactgatgac gctgttcttc catctttact 120
ccctggaaac taaccacgtt gtcttctttc cttcaccacc acccaggagc tcagagatct 180
aagctgcttt ccattctttc tcccagcccc aggacactga ctctgtacag gatggggccg 240
tcctcttgcc tccttctcat cctaattccc cttctccagc tgatcaaccy ggggagtact 300
cagtgttcct tagactccgt tatggataag aagatcaagg atgttctcaa cagtctagag 360
tacagtccct ctctataaag caagaagctc tcgtgtgcta gtgtcaaaag ccaaggcaga 420
ccgtcctcct gcctgctgg gatggctgtc actggctgtg cttgtggcta tggctgtggt 480
tcgtgggatg ttcagctgga aaccacctgc cactgccagt gcagtgtggt ggactggacc 540
actgcccgtc gctgccacct gacctgacag ggaggaggct gagaactcag ttttgtgacc 600
atgacagtaa tgaaaccagg gtcccaacca agaaatctaa ctcaaacgtc ccacttcatt 660
tgttccattc ctgattcttg ggtaataaag acaaactttg tacctcaaaa aaaaaaaaaa 720
aaaactcgag ggggggcccc gaaacaaacn gn 752

```

<210> 1244

<211> 764

<212> DNA

<213> Homo sapiens

<400> 1244

```

aaaattagac acactttaaa ctttcaaaca ggtattataa ataacatgtg actccttaat 60
ggacttattc tcagggtcct actctaagaa gaatctaata ggatgctggt tgtgtattaa 120
atgtgaaatt gcatagataa aggtagatgg taaagcaatt agtatcagaa tagagacaga 180
aagttacaac acagtttgta ctactctgag atggatccat tcagctcatg ccctcaatgt 240
ttatatgttg ttatctgttg ggtctgggac atttagttta gtttttttga agaattacaa 300
atcagaagaa aaagcaagca ttataaacia aactaataac tgttttactg ctttaagaaa 360
taacaattac aatgtgtatt atttaaaaat gggagaaata gtttgttcta tgaaataaac 420
ctagttttaga aataggaag ctgagacatt ttaagatctc aagtttttat ttaactaata 480
ctcaaaatat ggacttttca tgtatgcata gggaagacac ttcacaaatt atgaatgata 540

```

784

```

atgtgttgaa agccacatta ttttatgcta tacattctat gtatgagggtg ctacattttt 600
aggacaaaga attctgtaat ctttttcaag aaagagtctt tttctccttg acaaaatcca 660
gcttttgtat gaggactata gggatgaattc tctgattagt aatttttagat atgtcctttc 720
ctaaaaatga ataaaattta tgaatatgac ttaaaaaaaaa aaaa 764

```

<210> 1245

<211> 368

<212> DNA

<213> Homo sapiens

<400> 1245

```

tttttggtgat tccgtagtca actatcgtgt tgccttagct ctcttttcaag tcacaaacac 60
agctggcctt aagtatttat ttaagcatct ttatatctct gtttacttta aactccttga 120
attagccatg caataatttg ggtatgttgt attaagagct ctaccacatt atggttcagt 180
cattgtataa ttaaacatga ggcatacaaga atcaaaaagt actgttttac ttgcctgctc 240
tctccattgt gtcattttac atttttagtag tactgtgttt tgtttattaa aaaaagtaaa 300
tcaacatata ctatgagggtg gaaaatggta cagaggccaa atcattctag tccggagggtg 360
gcattttcc 368

```

<210> 1246

<211> 511

<212> DNA

<213> Homo sapiens

<400> 1246

```

ggcacgagga gaaaactacc tatgacagtg ccgaggagga aaataaagag aatttatatg 60
ctgggaaaaa tacaaaaatc aaaaggattt acaaaactgt ggacagacagt gatgaaagt 120
acatggaaaa gtctttgtat caggaaaaatc ttgaagcgca agtgaaacct tgcttagagc 180
tgagtcttca gtctggaaac tctacagact ttaccactga cagaaagagt tccaaaaagc 240
acatacatga taaagaagga actgcaggaa aagcaaaagt aaaatcaaaa agaagacttg 300
agaaagagga gagaaaaatg gaaaaaatta gacagctaaa aaagaaggaa acaaaaaacc 360
aggaagatga tgtagaacag ccatttaaatg acagtggctg tcttcttggtg gataaagacc 420
tttttgaaac tgggttggtg gatgaaaata actctccatt ggaagatgaa gagtcattag 480
aatcaataag agcagctgta aaaaacaaaag t 511

```

<210> 1247

<211> 431

<212> DNA

<213> Homo sapiens

<400> 1247

```

cggaggaaca ggttctgaat gccgcgctca gggagaaatt ggctctcctt gccgcacatg 60
ctcgagcccc gcacccaaag gtgatgggtt ctgggctgtg ggcttctctc atgtaccccc 120
ttacccggtat ccttctctcc aaagtgtaac cttgcttttg gcccaacctc ccaacaggag 180
ccacctgggc ctggggccaga catgaccatc ttgtgtgacc cagaaacgct attttatgaa 240
tctccacacc tgaccttga cggctctgcc cctctccgac ttcaactccg gccccgcctt 300
tcagaggaca ccttctcat gcaccggaca ctgaggcgat gggaagcgta gaccccaaag 360
atccctggag ggctagtctg tatttttgtg ttaaactatt tgttagaata aagtaatttt 420
gctaataaaa a 431

```

<210> 1248

785

<211> 2058

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1962)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1964)

<223> n equals a,t,g, or c

<400> 1248

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cccacgcgtc cgcccacgcg tccgcccacg cgtccggatt catctaaacc cattgtaaga 60
gagtcatgga tgactgaact tcctccagaa atgaaagact ttggtcttgg gcccaaggact 120
ttaagagaa gagctgatga cacatctgga gatcgatcaa tctggacaga tactccagct 180
gatagggaaa ggaaaagctaa ggaaacacaa gaagcaagga agtcatccag taagaaagat 240
gaagaacata tattatcagg aagagataag agactggctg agcagggtatc ttcatacaat 300
gaatcaaaaa gatcagaatc tcttatggac atacatcata aaaagttaaa gagtaaggct 360
gctgaagaca aaaataagcc tcaagagaga ataccatttg accgtgataa agatctcaag 420
gttaatcggg ttgatgaagc tcagaaaaaa gccctaataa aaaaatctag agaactaaac 480
accagatddd cacacggcaa aggcaatatg tttttataag gggatttccc tgtgcaatga 540
agaaaagttg aagaatactc tttgtccatc tttatttctt tgtttttggc ttcttaagat 600
tagagattac tttaatctta aaaaacatac aaatttacct tgttctgtat gtccttttaa 660
ggtcagtgtg aaacataaaa cgaatgtttt ttatgtagaa cagaatattc tatgtgcctt 720
tagcttctgt ggaagtatgg ggaattatgg gcttttcttc aaataattat tttaagaggc 780
ttccattccc cctgattdtt gtggtgtctc acaagtaccc tctaagggtc ggtcaggact 840
gaccaccaa tctctaccac agcctggacc tccttgtgaa atatacctaa cctgccctag 900
agtcagtgtg tcaagtcctt cctgtaaaac catgactttg aaatttggtt tttttccct 960
ttaaactgca gccagtgaat acaaatttac ttgaaaatag agggatggg gttttgcctg 1020
ttttgtaatc agtttgcttg ttttagcact cagggctttt tatttggtat ttaatttttt 1080
aattgttttt aagtcagaaa gatctctggg ttatctcatg tgctaaggaa aaactatttt 1140
gctytttcca actttaatag ttagtatttc taggggaggc aatcaagata agatatgcca 1200
ttaactgtta gcattgtgaa atctgtaaga ctcaatctct gatctcaacc aaagctttct 1260
gagtcctgga actttgcttt gggacaactt tactttaccc atttatatgc tgtacttaac 1320
agtttgtagc taatttatgg ggtcatatct ttttttagc taatttacgg gggtcatatc 1380
agtcatgaat agcctttttt aaaaatttaa taatccctga atacaaaaat ggaaatggaa 1440
aattttataat cataaccccc ctaattggga gtattataag tttgtaatgc ttttaagcact 1500
gcctcttaag atgataaatt tataagatga gaaattctat ttaaactatt aaactattgt 1560
taaataaatg ccaattctat aagttatatt ttcttgaga ttaatcccaa ttgttccact 1620
agtattctag ttttgaagag actggctgag caggatctct catacaatga atcaaaaaga 1680
tcagaatctc ttatggacat acatcataaa aagttaaaga gtaaggctgc tgaagacaaa 1740
aataagcctc aagagagaat accatttgac cgtgataaag atctcaaggt taatcggttt 1800
gatgaagctc agaaaaaagc cctaataaaa aaatctagrg aactaaacac cagattttca 1860
cacgggcaaa ggcaatatgt ttttattaag gggrrttccc tgtgcattga aggaaagttg 1920
aagrattact ctttgtccat ctttatttct ttgtttttgg gntntttagg tttgggggta 1980
ctttatctta aaaaacatac aatttaccct gttctgtatg gtccttttagg gtcagtggga 2040
acataaacgg atgttttt 2058

```

786

<210> 1249

<211> 943

<212> DNA

<213> Homo sapiens

<400> 1249

```
ctgcattctc tcggaagtca caccttatac cacatcaaag gacacatacg ggtgagaaac 60
cctatggatg cagtgaatgt aggaaggcct tctctcagaa gtcacagctg gttaatcatc 120
agagaattca tacaggagag aagccttatac gatgcattga mtgtgggaaa gctttctcac 180
agaagtcaca gctcatcaat catcagagaa ctcatacagt aaaaaaatcc taggaataca 240
gttaatagta gtctttgaca gatcatcttg gacttcagga aatgcaatta tgataacggt 300
tgtagacagt cacgtcatgt taggtgtctg tactccatga ggatgagAAC tctaataagg 360
tggtgtatgg aaagccgatc ataattcmta grgtagagkg aacctwtgac tgcagtggat 420
ctcaaaaact tttaaaacca tagacaagcc ttatagagta gaacattcac agcaaagaag 480
aatcctgtga atgtccaaaa gccttccaga agtcaagtct cttaaagctat tagaaatatt 540
cccactgggg atgaggggaaa accccatgaa tgcgggaaat gagggcaatat ttttaagaaa 600
tgacagttca ttgtacataa gaaaatgctc ttaggaatga agttctatga aagtactaaa 660
tatgggacag tgcaacaagt aaccagacta ttttgtatgt tggagaattc atattatgga 720
gaacctaaca atttaaagac actgggaaca cttgcccctc agtatagtac tgtcaaggga 780
agccatacac tttttgtaga catgggtacc aaaaataccc aattctaagt ggttgacaga 840
tgttcacttt gaagtgtgaa gttttaaaaa tacgtgaata aattgggttat tgaaacatct 900
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aag 943
```

<210> 1250

<211> 2231

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (53)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (581)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1918)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2204)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2214)

787

<223> n equals a,t,g, or c

<400> 1250

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gcgggccgcca agcgatccct gctccgcgcg acactgcgtg cccgcgcaca gangaggcgg 60
tgacgacttt acggcggcac ggtaagtgcg tgacgctcgt cagtggcttc agttcacacg 120
tggcgccagg aggcaggttg ctgtgtttgt gcttccttct acagccaata tgaaaaggcc 180
tagtaagtgg ggtcgagtcg cgggcgtgga gggacccacg tctggaagtt gctgcagcca 240
ccacgacgct cttctacggc tacggctttg tctctgctgg tatgggggtg ggagcctacg 300
cgtaggcctt ggccctattt cctggtagaa ccgagagttg gaagtcccta cggcgatcat 360
gttaaccgcg cgggctcatt ctgcggaacg aagccgggca gaggggtggg aagactaggc 420
tagattttcg taaggaagca gcgtctgagc caggtttgag gcccaatatt ttctttccgt 480
ggscacgtgc agactggccc aggtgagagc tgagaatcgc ctcccagact cagtgttctt 540
ctcctgcctt atgattcgtg ctgtttgaca cgaaggata ntcgttttgt gtctcatacg 600
ctgttgtgta tgatcccatt ctaatatgtg gagggtaagt gcagggaatt ttgactccat 660
tctggatcta ctgaatttaa ttctctggga ttgaaagta gcacgtatgt ttgcattagg 720
catttcgcat tagacttaac gttaggtttg gtagccaatc acacaagaaa aggatataac 780
tccatagtgc gttaaccacg aactaatcat ttgggttaac agatttgtga tgtgtttctt 840
tgtagagtta aagaaagcaa gtaaacgcat gacctgccat aagcggata aaatccaaaa 900
aaaggttcga gaacatcatc gaaaattaag aaaggaggct aaaaagcggg gtcacaagaa 960
gcctaggaaa gaccacaggag ttccaaacag tgctcccttt aaggaggctc ttcttaggga 1020
agctgagcta aggaaacaga ggcttgaaga actaaaacag cagcagaaac ttgacaggca 1080
gaaggaaacta gaaaagaaaa gaaaacttga aactaatcct gatattaagc catcaaagt 1140
ggaacctatg gaaaaggagt ttgggctttg caaaactgag aacaaagcca agtcgggcaa 1200
acagaattca aagaagctgt actgccaaga acttaaaaag gtgattgaag cctccgatgt 1260
tgtectagag gtgttggtat ccagagatcc tcttggttgc agatgtcctc aggtagaaga 1320
ggccattgtc cagagtggac agaaaaagct ggtacttata ttaaataaat cagatctggt 1380
accaaaggag aatttgagga gctggctaaa ttatttgaag aaagaattgc caacagtgg 1440
gttcagagcc tcaacaaaac caaaggataa aggggaagata accaagcgtg tgaaggcaaa 1500
gaagaatgct gctccattca gaagtgaagt ctgctttggg aaagagggcc tttggaaact 1560
tcttgagggt ttccaggaaa cttgcagcaa agccattcgg gttggagtaa ttggtttccc 1620
aaatgtgggg aaaaagcagca ttatcaatag cttaaaacaa gaacagatgt gtaatgttgg 1680
tgtatccatg gggcttacaa ggagcatgca agttgtcccc ttggacaaac agatcacaa 1740
catagatagt ccgagcttca tcgtatctcc acttaattcc tcctctgcgc ttgctctgcg 1800
aagtccagca agtattgaag tagtaaaacc gatggaggct gccagtgcc tcttttccca 1860
ggctgatgct cgacaggtag tactgaaata tactgtccca ggctacagga attctctnng 1920
aattttttac trtgcttgct cagagaagag gtatgcacca aaaagggtggr atcccaaatg 1980
ttgaagggtc tgccaaaact ctgtggtctg agtggacagg gtaagcytyc ttttctgttg 2040
gcattttggt gaccactaga ataaaccttc ttttgacaca tcttattttt aatatcagt 2100
ctcattagc ttactattgc catcccccta catcttggga ctcctcctcc atattttaat 2160
gagagtattg tggtagacat ggaaaagcgg cttcaatctg ggangtactg gganaagatc 2220
aattgcacag a 2231

```

<210> 1251

<211> 412

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (272)

<223> n equals a,t,g, or c

788

<220>
<221> misc feature
<222> (379)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (395)
<223> n equals a,t,g, or c

<400> 1251
ctgagagaaa ggaatgaaag gatggaagaa ttacaagatc aggcactgct gtstgtctgt 60
tccacggatg taaccacagc acacgcgtgg ctcacggtag tagtgtgata aatgcttggt 120
acatgaaggc gtgaacaggg atgagaagag acttcctgga gaaacaaaag gactaacaat 180
caggaagggg aggtgatcgg ggcaggagta aagtggacac ctcagcaaag ccattcgtg 240
tgatctctga ttgtgcagtg tcatgtcctg tncaccagag cccctcgtg tttgatgttg 300
gccaatgccg ccagcatgat ctagcaggcc aawtcctwat ytaccattct yttgacacca 360
gctgggtccct gggttcgtnc cacccgatgt tcccnctttt tccccatttg gg 412

<210> 1252
<211> 416
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (326)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (367)
<223> n equals a,t,g, or c

<400> 1252
gcttgaggc tttggcatcc tgagagcctg cctgggggga ctgtcaagtt gccaagggca 60
aggagagggg agccaactgc ctctccacc tggctgctca gccagggtct cctgccttca 120
aaggacattt ctttggtcag gaattgacaa gaatgagccc agagtcattc accccaaggg 180
tgtgtggcaa ccatcccttg ctcaacaccg aaagctgtag aatcatagtg gggaaagaag 240
caacttcttc agaagcagtt gtctaagtag cacagcttgg aaagaccttg gttcttcttg 300
atcatcactg gggggatatt tcgcanaaca agaaattgca tgccccgtcc atcatgttcc 360
accccnngcc caggccacc cgaattgatct gcccgggctc tctccttcca ggaagt 416

<210> 1253
<211> 2735
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature

789

<222> (74)

<223> n equals a,t,g, or c

<400> 1253

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cagtttttaa atgggatttt gagaatggac ttaactttcc tggaatccaa tgctcctgga 60
gatttatgac tttncagacc atcagccagc tatctagaga agatttttgt ttttcttttg 120
caacagtttc ttcagtcaac tcattcactt tcaaatagga gcagcacttt gaaatccttt 180
ttcttcaactg tggattaaaa acatccaaga agccatctct gtcaagcaga attgtcatct 240
gtggtaataa gtgaccatgt cctaaatacc tttttcttag tgaggagtgt gtcattgtct 300
ttgggcatct gcaacccttg ttcaggcatg tgacctgcta aagaaataca gcctacacta 360
ccttgactac tggggaaaaat gatacttcgt aaaatgtaat aaggcaacct gttccttggc 420
ctttatctta tgttttccaa ctattactgt atctgttatt ggtctactat tacaggatga 480
ttcttcttcc tccattgatc tcaactaaat atgaattagg gtcattgcac aaatctgaac 540
tgccgtgtcc tgagttatgg ttaagaggta tgtgtgtcca ccccatgcat gtcttcccca 600
tccccatagg atttttaaagt gttcagggtac caaacacagt tctgtgtgag gttttatgcc 660
tacttcctca acaccaattc agaggcaaca cctgtgcatc tgtcccacca aagggtgcttt 720
aatacctacc ttcactattt gagaaaaggac actcacagtt gcctgtgggt tatgaaagaa 780
ttggccctac gtcctgcatg taagatgtta caggggacat tgggccaggc attattatat 840
agagaagtct tatttgccaa gctctgacta acttctggat atgaaaataa ggaacttgcc 900
cagcataggc ctataggcag cagccttact agtaaatctt gccacagaat cacttgaagc 960
tagacagaga aagaagttca atttaaatat ttgtcccatg gtttgtgatt aggatgtaag 1020
ctttgtggaa tgtaattaac cctgctttac gaagtaccca tattataata ggaaaaacac 1080
tgccataggag gcaagagatc tgaattccag ttctgatgct gccactgtgt aagggaagtag 1140
ttttataacc catgggcaaa tcatctgagc tttctcatct gtaaagttag ggagaggaat 1200
taattagttg atctgtaaaa taatcagctt caaaacgtta tggctaaatc tgtagaatgt 1260
atgcccattt gctaaacgga tgttgtgccc agaattttat ctagtacta cctcaacata 1320
caggccaagc gttacctaca ccaacaccca agccattaat ttgagggtgc atgagaatag 1380
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aatatattta gatgagagag ttctcttaga cttctttctt tgtaagggaag ggttattttg 1500
ggaagtgttg gaaaaaagat tagggcaggg taccttagt ttatataggg tacaaaaagaa 1560
tggaacatct cttccctttc ttctttaatc tctgaagtca tgtttggaat tacatataat 1620
gtagcaggta ctggagagga cctgaatttc aagcttctga tttagctgtt tgtaaacctt 1680
caagttttgc ttgactaaaag aatgctgac ttttttggga gtctgatctc cttctaata 1740
cagaaagtgc tttttatatt ccagattgct tgaattaaac tgtttggtt aaagaacata 1800
tatggagttt cctctctggt tttaaataat ctttctttat tcagttagct ttaataattt 1860
atctcatatt cagcgaatat ttattgagaa tattgttgag aatctcttac atgccaggca 1920
ctatactaag ttaatatgca ttcagtatac cagttggtgt gaccagacc aaaggtaaca 1980
caaagatgaa tgagaattcc ttcaaggcgc cgataatcct agtaggagag ctaagacaca 2040
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gcatcctttt gcaagatttt ttttaactac caggcttaaa ataatgaggt ccagagcac 2160
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cttgataaac acttggtctaa gttttctgac taatgctgga tcaggtagaa attcttttag 2340
actaaagtca aaaaacacta attgcttaag attctcaaat acaccatga aggcaagcca 2400
tccatcactg ctcacacgat ttcccgccta attcaactgc tgggaagtttt tcagagggtt 2460
ctttccaaaa aatgcaccta aaattcta atctgtatct gtgagtctcc agtttttcaa 2520
cccaagcttg acgagttgtg ggacctctc caaatgtttc aacaagctgc tcaggctgcc 2580
ttgcacgtca cagccccagg gcagcatcag tgcggtgagc tgttctagca cgttcatcct 2640
gtcgatcagt tcatgaagag cttcatttcc atctttttcc aggtaatatt ctgataaatc 2700
aagaatgctc agtttgacca aattgtgctc gtgcc 2735

```

790

<210> 1254
 <211> 693
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (609)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (651)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (682)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (683)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (692)
 <223> n equals a,t,g, or c

<400> 1254
 ggggtgctttc cacaacatgc atcgagacca tcttggagca tttacttttg aagcattttg 60
 tttaagaccc cggataagaa aatgagggca aaagaggtga agtgacttgt ccaagatcaa 120
 cagtgaatta ttagttggaa cgccagcctg atactcctag ctatatctca ctggaaaagc 180
 attggagaaa atgaaaccat tttaatatc taagcttaaa taatagttat tataggcgtg 240
 agccaccatg cccgaccagt ttctgctttt attaaaattg ttcacagttt tatacattca 300
 tgttcattaa aaatgctatt tagaaaagag ttgataaaaa taaatattat wcaaaattcg 360
 aagaaaaaag aawagagttt ctgtttcagt cacaaattag gggtattgtg atgtgtattt 420
 atgatgaccg ttgaacaaat gtgaagaata ctgtgaattc tatgacttta tcaaaatcag 480
 ccacatccag gagcttgacg ttgttgacca aatgaatgat gacatagagt agttcagatc 540
 tatcatgtgc tcttctatct aatcagtcaa tatttccttg gccctcaagc caacattcat 600
 tttttatgna taccttcttc atgatattga aatttttgata ggggtaactg nttaatggag 660
 ttcccaaatg gtagcacttt tnnaacccga ant 693

<210> 1255
 <211> 462
 <212> DNA
 <213> Homo sapiens

<400> 1255
 gctgtgtcca tgatgctttt aataaaaaaca acccccactg cagtctcacc ctccaagtgg 60

791

```

gtgtgggagg cggggtggc cagcagaagc cccaggcct ggactccatc catctgctca 120
gacaacagca gggagagcgg ggggccaggt ggggcagctc cctcccttcc acccctctcc 180
gcccctcctg agggcccatc aggagcagga cccctgtgcc tccgtgggtct tgccctgttt 240
gcaggcagca tgtggccctg cagtcacaca gcctggagac accacgagtc ctggcggcct 300
gtgtgcaraa aggcacctac ggcycctggaa gcccagttgc ggaaggagggt tgggggaggg 360
acgccgggag ggaggtcatg cagcctctgt ggccagcacc accctgacgg tgccctggag 420
gtggctgtca cctgaccgtg ggcagaccca cagagcaagg cc 462

```

<210> 1256

<211> 1037

<212> DNA

<213> Homo sapiens

<400> 1256

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gggaaagctg gtacgcctgc aggtaccggt ccggaattcc cgggtcgacc cagcgcgtccg 60
cggacgcgtg gggcaagact tttgcccgct acctttcatt cgggcgtgac aacaatgagc 120
tgttgctctt catactgaag cagttagtgg cagagcaggt gacatatcag cgcaaccgct 180
ttggggccca gcaggacact attgaggtcc ctgagaagga cttggtggat aaggctcgtc 240
agatcaacat ccacaacctc tctgcatttt atgacagtga gctcttcagg atgaacaagt 300
tcagccacga cctgaaaagg aaaatgatcc tgcagcagtt ctgaggccct atgccatcca 360
taaggattcc ttgggattct ggtttggggg ggtcagtgcc ctctgtgctt tatggacaca 420
aaaccagagc acttgatgaa ctcgggggtac tagggtcagg gcttatagca ggatgtctgg 480
ctgcacctgg catgactgtt tgtttctcca agcctgcttt gtgcttctca cttttgggtg 540
ggatgccttg ccagtgtgtc ttacttggtt gctgaacatc ttgccacctc cgagtgtctt 600
gtctccactc agtaccttgg atcagagctg ctgagttcag gatgcctgcg tgtggttttag 660
gtgttagcct tcttacatgg atgtcaggag agctgctgcc ctcttggcgt gagtgtcgta 720
ttcaggctgc ttttgcctgc tttggccaga gagctggttg aagatgtttg taatcgtttt 780
cagtctcctg caggtttctg tgccctgtg gtggaagagg gcacgacagt gccagcgcag 840
cgttctgggc tcctcagtcg caggggtggg atgtgagtca tgcggattat ccaactcgcca 900
cagttatcag ctgccattgc tccctgtctg tttcccccact ctcttatttg tgcattcggt 960
ttggtttctg tagttttaat ttttaataaaa gttgaataaa atataaaaaa aaaaaaaaaa 1020
aaaaaaaaa aaaaaaa 1037

```

<210> 1257

<211> 1271

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (336)

<223> n equals a,t,g, or c

<400> 1257

```

ttcagtcaac attcacgtct tgcagtgcat cggagaattc atactggaga gaaaccttac 60
aatgcaaag aatgtggcaa ggtcttcagt gaccgttcag cttttgcaag gcatcggaga 120
attcactctg gagagaagcc ttacaaatgc aaagaatgtg gcaaggctct cagtcaatgt 180
tcacgtctta cagtgcactc gagaattcat agtggagaga aaccttacaa atgcaatgaa 240
tgcggcaagg tctacagtca gtattcacat cttgtagggc atcgaagagt tcacttgga 300
gagaaacat acaaatgtca tgaatgtggc aaagcnntta atcagggctc cacactcaat 360
agacatcaga gaattcatat cggagagaaa cttacaaaat gcaatcagtg tgggaattcc 420

```

792

```

tttagtcagc gtgtccatct tagacttcat cagactgttc atactggaga cagaccttac 480
aaatgtaatg agtgtgggca aaacctttta aacggagctc aaacctcact gcacatcagr 540
taattcatgc aggaaagaaa ccatataaat gtgatgaatg tggcaaggta ttcaggcata 600
gttcacatct tgtaagtcac cagagaatcc aactggaga gaaaagatac aaatgtattg 660
aatgtggcaa agcctttggg cggttgtttt cctcagcaa acaccaaaga attcattctg 720
gcaaaaaacc ttataaatgt aatgagtgtg ggaaatcttt tatttgctgc tcaggcctca 780
ctaaacatcg aataagacat actggagaga gccttacaac taaactcaat gtgacaaggc 840
cttagacgtt gtccatgttt ctggaatcac cgaataattc ctacttactg atataccttg 900
tatatttacc cttctctttg aaatccctgt ggaattgtaa tctccagtat tggaggtggg 960
gccattggg aggtgattga atcatggaag tggatttctc aaactgagaa agatgtagcg 1020
tcatccctt ggtgctgtcc tggcaatagt gacttctctt gaggtctggc tgtttagaag 1080
gcatagcact tccctgtcgc ttgccctcat tctcaccatg tgaaataaccg acaccgcctt 1140
tgcttccac catgatttta accttccctga ggcttcccta gaggggtgac agatgccagc 1200
accatgtttt catttaagcc ttcagaaata tgagccaatt aaactctttt ctttatacat 1260
taaaaaaaaa a 1271

```

<210> 1258

<211> 849

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (806)

<223> n equals a,t,g, or c

<400> 1258

```

ggtccgcgcc ctgtcgggct gagcgagttg gccacagag ccggcgcgct cccgcctgca 60
gggggagagc agacgggcgc ggggacggcc aggcgcggcg ggtgctgttt ctgtttcact 120
ttccttcact ctgaggccgg cgcgctggcg ggcgaggagc ggcggcgggtg gcgctgkaca 180
tgggaaagcg gaaccaccaa aaggagtgat gatcaacgat ctcacgataa atctggatgc 240
tagttctcat gcctcaggac atcctactgg gaacgacaca ccagctcctg ggatcagact 300
ttcatctact taggacccct ctttgcccag actactaaag ccagtcttca ctagccacga 360
atggctaccc aaaggaaaca cttggtgaaa gattttaatc cttacattac ctgctatatc 420
tgtaaaaggt atctgatcaa gccaacaaca gtgacggaat gcctccatac attctgtaag 480
acttgatttg ttcagcactt tgaagatagc aatgattgcc caaggtgtgg caaccaagtt 540
catgagacaa atccattaga aatgttgagg ttggacaata cattagagga aattatattt 600
aagctgggtc ctggactacg rgaacaagaa cttgagcgtg aatctgaatt ttggaagraa 660
aataagcctc aagraaatgg acaagatgat acttcaaaag ctgacaaacc gaaagtagat 720
gaagaaggtg atgaaaatga agatgataaa gattatccac aggaagtgac ccacaaattg 780
gctatctgtc taggttggtt tacggnatta atggggccat tcggggggaca tggttggttaa 840
gggttttaa 849

```

<210> 1259

<211> 622

<212> DNA

<213> Homo sapiens

<400> 1259

```

ggaatttggc ccatccaaag actggccaag tgccaaaaaa aggcttgatt aggccctgaa 60
attcagtga aattctgcctg aagaaacctc ttattgaatt tgaaaaccat aaaccatttc 120

```

793

```

agggtgagctt atggggtttgt tttggggtttt tttttttttt ttttaagtctc tggcccaatg 180
tacgtgggat tagattctgc aagcaggcag cagtaagtat aagctaattt ctgtctataa 240
aaagaatgat taaaaaaaaat cattttgttg atgtgtggaa tagagattat cacacacatc 300
attaagtggg aatgtgatga atgatacaaa aacgaacagt cttataccca gcacacagat 360
cagaacaaag taactatcaa gcaccttcaa tgccccctc akgcctcttc ggattawtaw 420
tgcawccttc ctatagagag gtaagcacct cttgattatc agcaccatgg gagatgtttg 480
tctgattttg aacttctgta aatgaaatca tatagtatat actctttgga atctgttgtc 540
ttttgtagag ggaacttttt cattataaat cttatagtag tgttgttcct tcttcccatc 600
aacagtgttc ttttacttaa aa 622

```

<210> 1260

<211> 471

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (70)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (466)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (467)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (470)

<223> n equals a,t,g, or c

<400> 1260

```

tctgggtcccc caggggtcca ctcccgccgc agccccggtc cgtcggcgtc agtggagccc 60
caggcctggg tccgagatga gcgagacgct gctctgggtc gcggtcgccc gaggcgtccc 120
aaaaccaggg aacaggcccc aggagagaag cccctagaag tttcctggag cagggagtct 180
cctgtatcct gttagctctg caaaggaatc tggactttat tctgagggcc ttggagaacc 240
cctgcaaagt tttttaaaag gtggactaag agattggcat ttcacaacat gactctccga 300
attgaaacac taagaagatt ggcgaaatth aacattttaca gattagtaat ttaacccagg 360
tgactcgcga tgagggacat ggctaccctt cactttttgga gggagtttta agtgatacac 420
atcttttttg caagcaatth tttttttttt tttgagacgg agcgtntttn t 471

```

<210> 1261

<211> 647

<212> DNA

<213> Homo sapiens

<220>

794

<221> misc feature
 <222> (5)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (636)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (644)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (647)
 <223> n equals a,t,g, or c

<400> 1261
 gcttnttcta gatcgcgagc ggccaccctt ttttttattt tttcattggt gatgaaagtc 60
 tgaaatgtgc atttgtcatc cccactccat caatccctga ccatgtaagg cttttttatt 120
 ttaaaaaaac agagttatcc caatacatta tcctgtgatt taccttacct acaaaagtgg 180
 ctctgttttg tttgatgatg attggtttta tttttgaaat atttattaag ggaaaactaa 240
 gttactgaat gaaggaacct ctttcttaca aaacaaaaaa aagggcagaa atcaccccaa 300
 ggaacgattt ctacaggttg gatgatcacc gtgaatccgg ctctctctga gcattcgatg 360
 gccttagcac ctcatcaagc cagcacatcc tgccctgctgt tgcagcctgg ctgggtttat 420
 tcttcagtta ccctaattccc atgatgcctg gaaccttgat taccgtttta catcagctct 480
 tgtacttttc agtataattt cataatgagt tatattgtca ttttagacttt gaacagctct 540
 gggaaaataga agactagggg tgtttcttaa atttagctca tgttataata aaaagttgaa 600
 atgaaaaaaa aaaaaaaggg gggccgccct aaaggnccaa gttncgn 647

<210> 1262
 <211> 836
 <212> DNA
 <213> Homo sapiens

<400> 1262
 ctcaggaacc tccaatcatg gcagaaggca aagggggagt gagctgtctc acatggccag 60
 agcaggaggt agagagggga aggtgccaca cacttacaaa caaccagatc tcaggacaac 120
 tcaactcagta tcaggagaac agcaccacaa aattgtggtt aatcattcat gagaagcctc 180
 ccacgaccca atcacctccc accaggcctt acctccaaca tctgggatta caattcaaca 240
 tgagattttg tggaacaca gatccaaacc atatcacgca caaattgcaa ttacttcaca 300
 ctacagataa cccattaatc tgtgaaggat taatctgttc atgaaggcag ggccctcatg 360
 atggaatcac atcttaaagc ccctacgtct gagtactgtt acattgggga tttagtttta 420
 atatgatatt cagagcagaa aaacattcaa accatagcaa tatgtattga atatctagat 480
 catttccaaa taagatatta atatgatact gaaacattta ttgctgaaca taaatttaga 540
 acttactttg cctacctatt acagaagaac aaaagatatt tgggcctatt aaacctttcc 600
 tctgccattt cctgtcctgt gtcataggac taggaatcgt gtttctagaa agtatgaaat 660
 cgtgtgcttg cmaacttgga agaaaacagt tcatgactgc ataccttcta gttctctagt 720
 gttcactgga aattaaagac actaaaagtt aacaattctt attaattaat catattaatg 780

795

taattggaat ttctagaaat attaggggaa gcaactttat acgcaaagca taacag 836

<210> 1263

<211> 312

<212> DNA

<213> Homo sapiens

<400> 1263

aattcggcag aggcaaacat taagaaaaaa ggaatatatt agaataaaat agaaaaagtt 60
aaagggcatc acacaaaatt agtctaggta ttattccgaa gcttgcattt tatatgcac 120
tgggcatgta ctgagctgtg aggtgagatg catctcttac tgtgggctcc aatcaaagtt 180
ttaaaaacay cattttaagt tatgttcagt ggttactgaa tcttttacat aatttagttc 240
tctcttgaat cttcttgtcg tcatagraaa tgtcctatat cmatttttac agctwtaacc 300
atctgatctt ca 312

<210> 1264

<211> 190

<212> DNA

<213> Homo sapiens

<400> 1264

ggagctgact ctgcctgtcc agggcctgca aagtggctga gctcccttcg ggcccatggt 60
gtgcgcactg gcattggaca agcccgggca aaactctttg agaagcagat tgttcagcat 120
ggcggccagc tatgccttgc ccagggccca ggtgtcactc acattgtggt ggatgaagca 180
tggactatga 190

<210> 1265

<211> 571

<212> DNA

<213> Homo sapiens

<400> 1265

accagtctcg cgacactttc cttggccatg ggagacacac gagaagagac tctcgcaaga 60
aagtaaata gtcaggctgg aaacagcgaa gtatatctcg cgatacacgt gtttaaaatg 120
gcggcttcaa ggcgtttcac ggggtgtccc gacaggcgtg gaggtggggc gcaggcgagg 180
atgaagcttg agttggccag gagtcggaaa acgattgcag gcgggaccgc gtccgtcggg 240
gctgaggaaa cttagcgtgg cagaccctaa actgggataa ctttagggat atggccttct 300
tttcccagtt gcctcaaaact tagagcagcg tegtcttttag ccgaagattc attttcccag 360
catttttcct ctccaggcgg agtagttgga gacagagggc aagccagaaa ctgaccttcc 420
catctcctca ttcccttcca tcaagaactt ttcacgttcc tttccccacc ctggtttgta 480
aatggtatct ggcttcataa aaacgtttgt ccacaggtgc cctgctccat cagttcgtctc 540
cagcaatata ggaagttacc aaaaaaaaaa a 571

<210> 1266

<211> 1474

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1345)

796

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1389)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1429)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1440)

<223> n equals a,t,g, or c

<400> 1266

```

ggcgggcccc tgaaagactg cgagtacagc cagatcagca cccacagctc ctcccccatg 60
gagtcgcccc acaagaagaa gaaaatcgcg gcccgaggga aatgggaggt gttccccggga 120
agaaacaagt tcttctgtaa cgggaggatc atgatggccc ggcagacggg cgtcttctac 180
ctgacgctcg tcctcactct ggtcactagc ggactcttct tcgccttcga ctgtccgtac 240
ctggcggtga aaatcacccc tgccatccct gcagtcgctg gcacccctgtt cttctttgtg 300
atggggaccc tgctccgcac cagcttcagc gaccccgag tcctcccacg agccacrcct 360
gatgaagccg ccgatctgga aaggcaata gatatcgcaa acggcaccag ttcagggggg 420
taccgcccgc ctcccagaac caaagaagtc atcatcaatg gccagaccgt gaaacttaaa 480
tactgtttca cctgcaagat tttccggccc cctcgcgctt cccattgcag cttttgtgat 540
aactgcgtag aacggtttga tcaccactgt ccctgggtag gcaactgtgt ggggaaaaga 600
aactacagat ttttttatat gtttatttta tctctgtctt ttctgacagt ctttatattt 660
gcattcgtaa tcaccacgt cattcttcgt tcacagcaaa caggattcct aaatgccctt 720
aaggacagtc ctgcaagcgt cctggaggct gtggtgtgct tcttctctgt ctgggtccatc 780
gttggcctct caggattcca cacctacttg atcagctcca accagacaac aaatgaggac 840
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tgggcccgcc cacaccgccc ctccatgccc aacctcgccg argccacgct cgcggacgtg 1260
atgccccgga aagatgagca catggggccac cagttcctga cgcgccgatga ggcgccctcg 1320
ccccaggct actggcgggc gcagnccctt ggcgcacaag ccgaccatgc acgtgctggg 1380
ctggccagnc aggattcctg atgaggactt ttcgcggctg tgaactaant cctgtgacan 1440
atggccaggc cggggaaacc aaaggtcttc atgg 1474

```

<210> 1267

<211> 1405

<212> DNA

<213> Homo sapiens

<400> 1267

```

gtgtatttta caattttttt aaaggaaaat ttaaaatatg aaatgtttgt tttgtcttaa 60

```

797

```

cagggtatcc cttctccctc ccttggtcagc cttccttctt tctttgaaag gagaagtcac 120
acgttaagta gatctacaac tcatttgata tgaagcgta ccaaatctt aaattataga 180
aatgtataga cacctcatac tcaaataaga aactgactta aatggtactt gtaattagca 240
cttggtgaaa gctggaagga agataaataa cactaaacta tgctatttga ttttcttctt 300
tgaaagagta aggtttacct gttacatttt caagttaatt catgtaaaaa atgatagtga 360
ttttgatgta atttatctct tgtttgaatc tgtcattcaa aggccaataa ttttaagttgc 420
tatcagctga tattagtagc tttgcaaccc tgatagagta aataaatttt atgggygggt 480
gccaaatact gctgtgaatc tatttgata gtatccatga atgaatttat ggaaatagat 540
atttgtgcag ctcaatttat gcagagatta aatgacatca taatactgga tgaaaacttg 600
catagaattc tgattaaata gtgggtctgt ttcacatgtg cagtttgaag tatttaaata 660
accactcctt tcacagttta ttttcttctc aagcgttttc aagatctagc atgtggattt 720
taaaagattt gccctcatta acaagaataa catttaaagg agattgtttc aaaatatttt 780
tgcaaatga gataaggaca gaaagattga gaaacattgt atattttgca aaaacaagat 840
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aactgactat agattgtttt ctatgccatg tatgtgccac ttctgagagt agtaaagac 1320
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cccaagtgtg aaaaaaaaaa aaaaaa 1405

```

<210> 1268

<211> 1453

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1452)

<223> n equals a,t,g, or c

<400> 1268

```

aaaaaaaaa gaaagaaaag gtacatgtat atatttgtcc tgcattatgt tttttacttg 60
atataaatgt atttttactg tgatagtcca agtgccctgg ggggcagggtg tgctctatgt 120
ggttcttctt ccattggaga gctggcgtag agatctgcag tgttcacaag gatgttggtt 180
tggagatgtc tgctgctagg acctgggggtg tgtgactcag tccatatgag agggacatct 240
gggtggagga gtaaaattcct gtgctctgaa atgccacttg gtagctctgg acaatgaagg 300
acaattgact caaggggtgcc tggcttctgc tgctgctggg aaaaaattca gtttatagca 360
ttcctgcacc tcccaaagta gataacctgg aggtcattca gttaacaact gtccctgagg 420
actcagtttt gggggagggg ttatctggga gaagctttag cctgttctga gccattagga 480
gacattagtg aattggagca ctggagaatc ctacaaatgg cctatgtctc agaagagctg 540
ggacctcctt ccagctgctg cagatgctga caggccctgg gaggtgctg tgctctggag 600
aagctggagc agctcatttc ttggcctagc ctggctgcc cagaaagagc agtcaggact 660
tgagggaagc atcaaattct ataccataa actgcagttg gaagtcagct ttttgaaatg 720
tccagccttt gcccaattgt ttcagatcat ctcatcctc aggttttggc aggtatcctg 780
ccctccatct tattccagtg tgttcacctc atcaaggcag cagagtggat gaaggagtaa 840
gtctgccctt tgccatactg aacagctgtg gaccccgatt ggtgagggct ctgcatatgc 900
ctgtatgaag gagatacagg tgtgtgtgca catgccggta tgaagaagac acaggcatgt 960

```

798

```

gcttctcagt tttgctaaca gtgggagctc aacggggcag agggaggaag gtccatgatg 1020
ctcagccaca tactgtagag agaggcaatt taatgttaaa tgacgcacca tcctccctcc 1080
cacccttctc ccagtcaact ttttttcttt ttctagaact actaattatc tctcaaggct 1140
gaaaaattaa ttgccttagg tggagaactt aattcctagt atccaccaa cttactccg 1200
tatctccata tgggtgtctc atatctactg tgtgagctac ttaactgacg cctcttctct 1260
ccaactgaag gatcgcccaa cgttttttggg ttatagaatt attatttctt gctttctttc 1320
tttgggactt ttgaatttct ttggtttctg ttttaagaag taaccaaca tttcctacaa 1380
cactaaataa aatggtactt acctttcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1440
aaaaaaaaaa ana 1453

```

<210> 1269

<211> 1353

<212> DNA

<213> Homo sapiens

<400> 1269

```

ggacccacgc gtccgattat ggtaaacatt ttaaattctta ggctgttggt taaatttaat 60
ggtttaagca ctgttgggtt ctctttaatt aatatttgca gaaggagaac atatgtgttt 120
cactgatatg tatggtccag aaaaattact taattctcaa aaatatgttg cattctcata 180
ttgtgttagg gaaaattcca taagtagtct attttttttt tttcttttgc tgactgttaa 240
catccaaaca cctgaatgaa aactgactca tttctgtatt ggtgttttaa aatattgatt 300
tgcagatgtt cacagaacac ttgcattttt tgattcacat tgctaaatca aatgtaaagg 360
caaatatgta tatttaataa atgagaagta tttttttatt actgaaattt attctcaaag 420
caaatgtatt ttgtagatgk ttcatttggg agattttgct ttgccttaaa acatacmaaa 480
taaacctgtc ttgtggtctg cccacctcaa aacctctgtt aacttgacat gtagaaggag 540
ttcagaattc tttgataatg tgtggttttc acttttgttt ggattaaaca aaaataaaat 600
tagagtccat agcactttgt aaactaatgt gaagtttctt gttgaatcat aaaagctacc 660
tgtatgtact ttataattta atgttctgtt agtaaaaaatt gtcagcattt tatctttttc 720
tcttctcatt acatttttagt ctccaatctt tccactctc agcagtcaca gttttgcaga 780
gcaaaacatt tttagaaact gaatatgtgt gagttctata taaaatgaat gtgttagtaa 840
catccatctg ctgatcaagg aggcattgga tctggtacta gaagggtgaa ttgattgtag 900
ctatcaaagc attttatcaa tgtaagtcaa gaaaaagaa gaaaactgtg aacctctgat 960
atttttaaca taaaaactgt tcccaatgag tgttctcttg ctgattttgt gttaatgtta 1020
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aattcctgta gctgttttt accattagga tgtttttgaa aacagatgtc atcttagaaa 1140
ttatattttt aagtgcaaat aaatcatcct gacttgaaag tcaacacatt ttatttttca 1200
ttccgtagta tcacagaata tgctgcattt agatacaggt ttaatttgcc agattttctc 1260
aaaattctgt atttttatat tgctacaact ggtttactta acatgcaatt gaattgttat 1320
ttaaataaat tacatttgat ggaaaaaaaaaaa aaa 1353

```

<210> 1270

<211> 1569

<212> DNA

<213> Homo sapiens

<400> 1270

```

acctattcaa aattttatta aaaaccagca aattaatttt aatctctagc cataaaaaaca 60
taagtaatag taagctccta agcttggaca aaggctggat tctcttctact ataactgagt 120
ggtaatttaa agacaacaat ttaatgtcac taattttcaa aattaaatag tttaagctca 180
atttaatttt gctagatatt taacaaaaca tacggctcaa cctcataacc tatatgtgtg 240
tatgtctaca tctgtgtata tatcatagga tttgagaatc ttaacacatg tataaataag 300

```

799

```

tatatatataaa ctccaatttt aaatcttataa attgctgaat ttaccctcat attctttataa 360
aaactttaaag cattatgaat gtwgagaaat tcaccagagc tcaactgccta tttgatggct 420
gtaacaagtc ttcaagtata tactttttata ataagttgaa aatttcatat aattttatttt 480
attaagaatt ccaatctaag tataaaggta caaggtagtg agaaggaaat actacagttc 540
ggagaactgc ttattttccaa gtatatattaa cttataaaagt taataaatag ttaaagtga 600
caaagtttat aggtgacctt tagtaaatgg ggaaattaac aggactttct tcttcattct 660
caaactcttc agaagcagca acagggctag ttaattcaac tccaatttgt tctgaaagtt 720
ttttttacctt ctcttctaag agaataattct tcttcacttc ttccttgtaa ttatacttaa 780
gatcttcaat ttcttcaaaa aatgaaggat caaaattttc cagttctttt ttcagcttct 840
ttatttcctc cttcaaagtc tgcttttcta gatctgacat tttgagctgt gtctctagat 900
cttttatttt ttcttttagt tgatcagcat caggtagtgt gctttcagct ccacttttgt 960
ccttgttagc ttctatctga tggattaatt ctgctttctc tttatccagc tgatgattag 1020
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ctctctctgt tgcttctttt acaagctgtt taaggctcagt aatgctttga ttttttttgg 1200
caatatcagt ttccaattct tttwacttgg tttcatacat tcttgtaacc acaatggatt 1260
tccagctctt actgtcagca ctttcaagct gtggacctct gctttctgca aactgcaatc 1320
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ttgctatccg taatttctct gcagcatcag tttctttttt aagttcttta cgaagccttt 1440
cattttcagc aataattttt tctgtgcctt tggctcttgg ttcatagtgc atgctcaact 1500
gatgcccaag atgagcttta agtttttcta attcagcctt caatttttca ttttctgtct 1560
caatattag 1569

```

<210> 1271

<211> 573

<212> DNA

<213> Homo sapiens

<400> 1271

```

cagttgaata catcatccac aaaccaccaa ttgccttctg aacatcagac cataactaagt 60
tctagggact ccagaaattc tttaagatca aatttttctt caagagaatc agaactcttc 120
cgaagcaata cgcagcctgg attttcttac agttcaagta gagatgaagc cccaatcata 180
agcaattcag aaagggttgt ttcatctcaa agaccatttc aagaatcttc tgacaatgaa 240
ggtaggcgga caacgaggag attgctgtca cgcatagett ctagcatgtc atctactttt 300
ttttcacgaa gatctagtca ggattccttg aatacaagat cattgaattc tgaaaattct 360
tacgtttctc caagaatctt gacagcttca cagtcocgta gtaatgtacc atcagcttct 420
gaagttcccg ataatagggc atctgaagct tctcagggat ttagatttct taggcgaaga 480
tggggtttgt catctcttag ccacaatcat agctctgagt cagattcaga aaatttttaac 540
caagaatctg aaggtagaaa tacaggacca tgg 573

```

<210> 1272

<211> 782

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<400> 1272

800

```

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caagcacaaag agcagccctt tattgcctct tcttatcttt cataatgttt gcttcagtc 120
tgcaataaaa cccaagatcc tggctaataa aaaaagtcac tactgtgctt gctgcctgtc 180
tggaaaagtga gaatcaaaat gctcagagga ttggagcagc tkccctttgg gctctgattt 240
acaattatca gaaggcaaaa acagctttga aaagcccatc agtaaaaaga agagtggatg 300
aagcatactc cttagcaaag aaaactttcc caaactcaga agcaaaccct ctaaattgct 360
attatttgaa atgtcttgaa aacctcgtgc agctccttaa ttcttccttg agtgcccatg 420
ggatgcctac acctgaagc tgacagtcac caacagggga gctaaagtgt aagcccagct 480
gtgtgtagca gctgttacct gaagacgtgc tacctctcta caaagtgttg atccccctct 540
ttcccatgag agagagaact ggtgatactc caacaccgtc cagttgtggc agctctccag 600
aagtaaatagc agctgacaac tttctgtgcc ttttcctttc tgttgaaaag gcatagaaaag 660
ttctgggaac ataaacattt ttaccctttt ctatgccatt tattttgtaa aaatcctatt 720
taacagttat ttaataaaac aatattttta gaaamwaaaa aaaaaaaat tactgcggtc 780
cg 782

```

<210> 1273

<211> 294

<212> DNA

<213> Homo sapiens

<400> 1273

```

gctgaaccac ctccaaaacg catcractcc cggatattca aagctgcctt ttcaaatacca 60
ctttcagacc gcgctgacct gggccagcca ctggsngtca tgggtgctgg tgggggcat 120
tagctgtgta gaccacagg tgctggggcc tgggcccgcg gcgcctcttc mccaacgcgg 180
ggagcctgcc cagttcttct ggagcctgaa atgcgtgcc ctcttggttg cccgctctcc 240
acagtgggga gggctcacga ggactaggtg acacaagcga gcccctcttg gcat 294

```

<210> 1274

<211> 687

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (243)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (252)

<223> n equals a,t,g, or c

<400> 1274

```

gctcgacagg taaaatccct acgtgatcct tctgccaaaa tgtcgaaatc agaccctgac 60
aaactggcca ccgtccgaat aacagacagc ccagaggaga tagtgcagaa attccgcaag 120
gctgtracag acttcacctc ggaggtcacc tatgaccccg ctggccgcgc tggcgtgtcc 180
aacatagtgg cgggtgcatgc cgcggtgacg gggctctccg tggaggaagt ggtgcgccgc 240
agnnggggca tngaactctg ctgcgtacaa gctggccgtg gcagatgctg tgattgagaa 300
gtttgccccca attagcgtg aaattgaaaa actgaagctg gacaaggacc atttagagaa 360
ggttttacaa attggatcag caaaagccaa agaattagca tacactgtgt gccaggaggt 420
gaagaaattg gtgggttttc tataggaagt ttcaacgaat cacagcaagg cttttgtgcc 480

```

801

```

ttgcactcca tgcattctga taacggcagc tttcctaaaa agaaaaagtt atagtttttg 540
gacattttaat ttggtatagc tgattattgg ctttatttga tgaatattgc tttgtagctt 600
tgaaatacga cagtgttcca aatcccatca acaaaatgct gtgaacaaca acaacaaaaa 660
ataaatcaag aaggcataarm aaaaaaa 687

```

<210> 1275

<211> 818

<212> DNA

<213> Homo sapiens

<400> 1275

```

gaattcggca cgagaaaaag ccataatata agactctaaa gatctggaat gaaacctaata 60
aagagactgg taggtcaaat gagagcaaag catttgaatt tgactggatt gttttctcac 120
tggaataagt gattctatga gttcatcatt aacacatttt ttgactggaa aactgctata 180
ggatcccagg gaggactaaa tttgaacaga ggaagtggac agtgttgcag tctctgttct 240
agctcttggg tctagaatag gagagttaag agcaccaatt tgggatgaag aaagcagaaa 300
gcaattatcg atatcaatca agagagcaga acagcctctc tccctccatc ctccctctgc 360
cctcttctcc ctctctcctt ctctgctttc ctttctactct gtgtatgtta gctttggccc 420
cattccataa gccgagataa aaatgctagg catgataaat ttgtgactgt tactaacatt 480
taggattttt tttttgagat ggagtttcac tcatgttgca gtgagctgag attgtaccat 540
tgcactccag cctgggcaac agagcgagag tctgtctcaa acaaacacaa aaaaaacaa 600
atgccacgtc aacatcagga cgttaacctt tagacctat atggtctaaa aaggggaggc 660
atgaataatc cacccttgt ttagcatatc atcaagaaat aaccataaaa atgggcaacc 720
agcagccctg ccctgtctat ggagtagcca ttcttttatt ccttttagttt cttaataaat 780
ttgctttcac tgtaaaaaaa aaaaaaaaaa aaactcga 818

```

<210> 1276

<211> 850

<212> DNA

<213> Homo sapiens

<400> 1276

```

cccccttact tgggagtctg acttcattac ctctgtctgaa acaagggtgcc tccaagcttt 60
gggttgattt ccagaatctt gttgggttaa acataagtag aagtttgatc ataaaggrrtg 120
ttattaagcc ggataggtaa gcacggtgac aatggcaata gaaatctaata ggaaaacgat 180
tgaatgacaa ctacacccaaa gtttcatgga tgaaactcac cccagaaaact tagtgttcaa 240
atcagagtga tacacaattc aaaatgtgat tttaaacttc tggaaatatg tgtgtttgtg 300
aagatccaaa tccaattcag caacctccat caggcagaaa ccttctgcaa tcctcacatg 360
aggaactggk tcacagtgtg cacagcatgg agccattagt gacgttatcc aaaggatgag 420
acaagacaaa agttactgtc taataaaaagg aaaattagga acaggaatgc tctttaaact 480
caggaagatc ttttggggtg tcaaactgga cagcacagaa tcattagaaa aattagcttg 540
gcgtgagaag agacattgag gtcttctctg taaaatttac ttagatactt gtgaatagga 600
ctgaaattta tttttgggc actctttacc tcagattcag agttcttagg attattttaa 660
attcattttg tggatgtttt caagtataaa caataagaaa actgcaactt caacttaaaa 720
ggcactgctg tatttgcacc ctatattttg acctgtcgtt aggtactgtt gaatattttt 780
atctgtaagc atttatgaag tgcaaaataa acatgtttatt atataaaaaa aaaaaaaaaa 840
ggcggccgct 850

```

<210> 1277

<211> 500

<212> DNA

802

<213> Homo sapiens

<400> 1277

```
gagcaagacc ttgtctcaaa aaagcaaaaa agcaaaaaaa aaaaaaaaaa aaaaaaaaag 60
gaagtctttc ttcagatact tacgtgaaaa aaacctgcaa tatcttttaa gtgaaaaaaa 120
cagtgccaaag cagcacacat agtataagcc ccaaccaacc tttttttttt tttttttttt 180
gagacagagt ctggctgtgc ctcccacttt ctaagctttg saragagtga gttgactgag 240
cagccaggta gatgtgggtt cagatctctg cktctgtccy gctgtgccaa gtgctggggc 300
agacgcrggc agagagtgga cagyggcatg gtgcctgctg ctagecattt ctatgcaaaa 360
ccagatttct rgtcccatcc tggaggccaa ttctaggtac stgggtgggc ctgggaacct 420
gtgaamcaag taaactgact tagacacccc ccaccccacc aggctgtgcc tagcagcccc 480
acacaaaacg ctcatgtcct                                     500
```

<210> 1278

<211> 561

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (506)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (522)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (538)

<223> n equals a,t,g, or c

<400> 1278

```
gaagtactct aaatgagcat aaggaagaaa acacaactac agttttcata ggagctaaac 60
tgcagaacac agacaggatt ctagaaggac aaatottatt tcatttagct tcttcttaaa 120
gccaaagatac ctgcaaattc aaaccttagg ttctgccctc tgcggcacc caggcagagcc 180
tgactaggaa acttcagaga ggagaatgta aaaggaaatg tagatattta taattgaagt 240
atctttcccc ttgggtatatt ctctttctct tttttttttt aatgaaaatc agtcaactga 300
atatttttgt tccccgagga agactcctca gctgtcgatt atgctgagca cacgggagaa 360
gctctaacag aagatgatgc ccgctctggc taatgatcac ctgttctgta tcagtggag 420
acaaggtctt gaagttggcc cccttcagct gtgaataggt attaggtacg gaatatagct 480
aaaagcattt gtgtgagcct gcaaancaaa tgggtgctgg anccaatttt gtacaggnat 540
atccaaataa atttaatttt c                                     561
```

<210> 1279

<211> 1667

<212> DNA

<213> Homo sapiens

<400> 1279

803

```

gggaactgcc aaaagtgtgc atttggctac agtggactcg actgtaagga caaatttcag 60
ctgatacctca ctattgtggg caccatcgct ggcattgtca ttctcagcat gataattgca 120
ttgattgtca cagcaagatc aaataacaaa acgaagcata ttgaagaaga gaacttgatt 180
gacgaagact ttcaaaatct aaaactgctg tgcacaggct tcaccaatct tggagcagaa 240
gggagcgtct ttccctaagg caggataacg gcctccagag acagccagat gcaaaatccc 300
tattcaagmc acagcagcat gccccgcct gactattaga atcataagaa tgtggaaccc 360
gccatggccc ccaaccaatg tacaagctat tatttagagt gtttagaaag actgatggag 420
aagtgcacac cagtaaagat ctggmctcgg ggtttttctt ccactctgaca tctgccagcc 480
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tatgacatta aatgtagtag atgctattag cgcttgctcag agaggtggtt ttcttcaatc 600
agtacaaagt actgagacaa tggttagggt tgttttctta attcttttcc tggtagggca 660
acaagaacca ttccaatct agaggaaagc tccccagcat tgcttgctcc tgggcaaaca 720
ttgctcttga gttaagtgc ctaattcccc tgggagacat acgcatcaac tgtggaggtc 780
cgaggggatg agaagggata cccaccacct ttcaagggtc acaagctcac tctctgacaa 840
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gccagagct tgcaacctag cctcacccaa gaagactgga aagagacata tctctcagct 960
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caacacacaa ccacacacac acaaccacac acacaaatgg gggcaaccac atccagtaca 1500
agcttttaca aatgttatta gtgtcctttt ttatttctaa tgccttgctc tcttaaaagt 1560
tattttatatt gttattatta tttgttcttg actgttaatt gtgaatggta atgcaataaa 1620
gtgcctttgt tagatggaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaa 1667

```

<210> 1280

<211> 457

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (429)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (439)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (453)

<223> n equals a,t,g, or c

<400> 1280

```

ttcacagcta ggagtccttg ggaatacacg aacctgtgca gtagacagtt gggggccagc 60

```

804

```

ttgttggaga ctgttcttat tttcttcttc ctttcagaat ttcagctgat cctcactatt 120
gtgggcacca tcgctggcat tgtcattctc agcatgataa ttgcattgat tgtsacagca 180
agatcaaata acaaaacgaa gcatattgaa gaagagaact tgattgacga agactttcaa 240
aatctaaaac tgcggtcgac aggcttcacc aatcttggag cagaagggag cgtctttcct 300
aaggtcagga taacggcctc cagagacagc cagatgcaaa atccctattc aagccacact 360
caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 420
aaaaaaaaana aaaaaaaaaa aaaaaaaaaa aangggc 457

```

<210> 1281

<211> 723

<212> DNA

<213> Homo sapiens

<400> 1281

```

ttttttttcc awgtacwtga aaaatccatt ctcttgggtg cactacmagt ctgcttagtt 60
ttaagtgaat ttccttttat gtctacttgg tttttacttg tgtcaacatt tagtatgcta 120
cctcttctat wgaaggatga actcctaata cctctgttg tgacaacaat ggcatttttt 180
atagcttgtg taacttcctt ttcaatatat gaaaagactt ctgaagaaga actgcagttg 240
aaatcctttt ccatttctgt gaggaatat ctccatggt ttacatttct ttccagaatt 300
atacaatatt tgtttcttat ctcagtcatc actatgggtg ttctgacgtt gatgactgtc 360
acactggatc ctcttcagaa actaccggac ttgttttctg tattggtgtg ttttgatatc 420
tgcttgaact tcctgttctt cttggtatac tttaacatta ttattatgtg ggattccaaa 480
agtggaagaa atcagaagaa aatcagctag ctgtattcct aaacaaattg tttcctaaac 540
aaatgtgaat atgtgaacag tgctgaaagg ttttgtgaac tttttgctat gtataaatga 600
aattaccatt ttgagaacca tggaaaccaca ggaaaggaaa tgggtgaaaag tcattgttgt 660
ctacacaaaa taaatgtata tggagaccaa araaaaaaaa aaaaaaaaaa aaaaaaaaaa 720
aaa 723

```

<210> 1282

<211> 331

<212> DNA

<213> Homo sapiens

<400> 1282

```

cggacgcgtg ggcgaccac gcgtccggct caggcacgtg gccacctttg aaccagggat 60
tttgatcggg ggactctcat tggcccgccc ccgttgggtt ccttgtcccc tggccccac 120
gggagtgagg atggcgccat ggtggagagc accaccagga ccacgtggag ttagggagag 180
actgtcccc taagaaaaac ataggacccc tgcaagccca accacctctc ccattagaat 240
ttttcagtca ggcacaaatg caaaagttca gcttaggktg garacaaatt tgcargacag 300
gtttcccara atcatccaca ttaccaccta c 331

```

<210> 1283

<211> 347

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (290)

<223> n equals a,t,g, or c

805

<220>
<221> misc feature
<222> (328)
<223> n equals a,t,g, or c

<400> 1283
gttctagcaa gtgtggtttt agctgtatta gccagattgg gcggccggga gtggtggggg 60
tgccgggtgg aaggctctgg gcggggtctc aggaccctcc ttttcttggc ggggatcggg 120
cttgtggtgc cgctccccgt aatgtacgga ggaagaggga aagggtctctg gccccctcgg 180
cgtcatgtct tcggtgctgg cggcttccca tccgctggtt ctatcctcaa acgccgggac 240
accgggaatc tcggaggaag ggacaaccga ggattccagc tggcttcctn catcgggggtg 300
cttcacaatt tcttcatttg attttcangt cttgcgggac ctgttat 347

<210> 1284
<211> 918
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (52)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (182)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (822)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (866)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (878)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (916)

806

<223> n equals a,t,g, or c

<400> 1284

```

gacacnaacc ctcactaaag ggaacaaaag ctggagctcc accgcggtgc gnccgctcta 60
gaactagtgg atcccccggg ctgcaggaat tcggcacgag cctgtcacca tccccagccg 120
ttagccatgg cttcggttct ggctcccggg cagccccggg cgctggactc ctccaagcac 180
angctggagg tgcacaccat ctccgacacc tccagcccgg aggcgcgaga gaaagataaa 240
agccagcagg ggaagaatga ggacgtgggc gccgaggacc cgtctaagaa gaagcggcaa 300
aggcggcagg gactcacttt accagccagc agctccagga gctggaggcc actttccaga 360
ggaaccgcta cccggacatg tccacacgcg aagaaatcgc tgtgtggacc aaccttacgg 420
aagcccagat ccgggtttgg ttcaagaatc gtcgggccaa atggagaaaag agggagcgca 480
accagcaggc cgagctatgc aagaatggct tcggggccga gttcaatggg ctcatgcagc 540
cctacgacga catgtaccca ggctattcct acaacaactg ggccgccaag ggccttacat 600
ccgctccct atccaccaag agcttccct tcttcaactc tatgaacgtc aacccctgt 660
catcacagag catgttttcc ccacccaact ctatctsgtc catgagcatg tsgtccagca 720
tgggtgccctc agcagtgaca ggcgtcccg gctccagtct caacagcctg aataacttga 780
acaacctgag tagcccgycg ctgaattccg cggtgccgac gnetgcctgt ccttacgcgc 840
cgccgacttc ctccgtatgt ttatanggac acgtgtantc gagcctggcc agcctgagac 900
tgaaagcaaa gcagcnct                                     918

```

<210> 1285

<211> 3211

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (514)

<223> n equals a,t,g, or c

<400> 1285

```

gggattacag gcatgatgcg ccgcacttgg cctagtgttt tcttaactgt gaaattccca 60
ttcatttctt gaatgaggct acatcttatg gacagagcaa agttattgtc ctacagattc 120
ttaaaactat aattatggct attgcatgaa atttaaatag attttattat gtctgcaaat 180
ctctgggctt ttatttttct ggaaaatata ggagctttta tcaaaacata atagtctttt 240
ttgtaattcc atgttaataa aaacaaatac tagcaattgc ttgaatttta atgaatattt 300
aaaagttaa gagccacgga aatcacttcc agagataaga gttccctttc taaatagaac 360
acatttttaa aaaataagtt atgtttgcta ctaaaacatt tacactgkta gactattatg 420
tgcatgttgc caagactctt aagtaacttg gatatcaact gtgaagggcc tacctctaaa 480
aagtaacagg tcatacaaat acmaatgtaa ctgntaaaaa ttccactgga ttcttgcata 540
tttgcaagat tagattattc aaaagaaatt tcagtgttaa aattaaccag caacataagt 600
tctatgggct ttgaaaattg ttctcatctt tttaaagttg atgcattttc aatcctgctt 660
acacaggctg ttcatittgga taagtaaata aaatgtctaa ggtgaacttg gcattatgtg 720
gagatgttgg accgttatag agcaatacaa attcctatgc tgtcattctg ttttctgcaa 780
atgcaaacgt gcttatatgg tcaacagtg ctaaaatagg tagttggctg catatttagg 840
gtattaccta agcatttgtt ctctaacggt gctctactag aatgattttt ttcttgcatc 900
ttttcacatt aatgatgttc tttatataac tttcatgcga ttatttagtt ttttaaat 960
ataaagtga ttttaagaaat attgaaataa acatctaagt aattgccatt ttaaaccctt 1020
gtttcttact gtgggagagg gggaaaataca gcactcattt cttgttttta atttgcagaa 1080
gtaagtgaat atctatgtaa aatcaaacca aaagagtttg actgagtgtg tattgtcttg 1140
agattaagtg acaaatagta aagtgttact gagtaattaa gcccatgtat tttttttttg 1200

```

807

```

tgagttgaaa atctttgaaa tatgtgataa ccgaatgtca aaagttccta aactctaaca 1260
gtgcagggttg ttcactgtaa cgaggtaact catatttgct ggttacataa actacaagta 1320
ctgctctcac aatatgggac tttgaactgt gatgtagttc aacagttgcc ggcacacctc 1380
cagctgatac gctgcgaata ttttgggtta gacttgcagc cagatgcagt tttgcaaccc 1440
aagaaaaaag ttgaacctat gatcaaaaac tgctcccaag atgaacctgg aaaaaaatca 1500
gctaagctcc cttggcgatc tgcaggaaca ctagtaatga ctggaattac tccgtgatct 1560
ttgatgacta ttacacataa cagcactcta gcaccttttc ttactggcat ggacttcctc 1620
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ttcattgttg gcytacctta tcaaactgtg ccattaatcc tttcacagac ataggtaagg 1860
aagagaacaa ccagtggatt caggggacaa ttatctatct ccaaataata ggcttttatt 1920
tcttgacgct aactttttca gtgattctag cagatgccat ctagtacatc cttgatcttg 1980
tttstttcgt gagagatctc gccatggcag catcttgta agtaagtgt attgcacatg 2040
cacaaaagac ttaactagct ttacatttag cagtcagttg gttagattag gtttcatagt 2100
aatgaatag gaatagaaag aataggaagt gtttttattt tccagtagta attccgtgga 2160
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aataaataca cttctcacat acctctaate ctatgcttcc ttgaaacaat aatgctagct 2340
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tagctacctc ctgtgcctga cttggtgect gtgtgaggat taagccctta gtctgctctt 3120
gcaattatcc aaatgacaaa ttaaatttgc ttttgtaata acaataaaaag ttgtcatctt 3180
cccttttgaa aaaaaaaaaa aaaaaaaaaa g 3211

```

<210> 1286

<211> 790

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (17)

<223> n equals a,t,g, or c

<400> 1286

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tgaggattag tgcagtnntc ccaagggaaa atatgatcat agctagtggg cttaccttgg 60
cagtacttag actgtgtatc ctttgaagtg tcttatctca gggatgggtt ccatgaaaac 120
catacagggt ttctaaatga cacagtctgg gtaactgcct agcttatgta atcatgtgag 180
gggttaataa tctctagggg gtagttacac tgatgacttt tcaaggttcc cmgggcctga 240
ccaaaatttt ggcttctctt aatacaaaag ggcacctgga attttagctc tgtgtacatt 300

```

808

```

gatattgggc cccaaatggg tttctgtggg atgcaacccc agaaagggtg ctctgatagt 360
actggagaag gtttactgct tgtcctgtca tcgtagttca tgtttttttc cccaaggcca 420
aagattgggc tgggattggg gtggtagtgt atttgaatga tgctggagat aaccaaagcc 480
aacagtcttt gccagagctg ggctggtggt atttaactgt ctttgagtta aatgtaaagt 540
ttttaataaa taccagaaat ccattaactg ctggaggggt aaagtgaagc tctgttgtaa 600
aataaagctg attcccatta tgcgtggtcc tgtatacaca ggctgtgggt gaccattatg 660
gaacccaaaa atacttattt gttattttgt gctatagaat aggaacttca ggggtggata 720
cctatgctgt caggaatgct tgttataaga attaatataa acactttgct taattattaa 780
aaaaaaaaaa 790

```

<210> 1287

<211> 391

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (360)

<223> n equals a,t,g, or c

<400> 1287

```

cggcacgagc ggcacgagcg gcacgagggg atttctaggt tttccccttg atcccagcag 60
ggttgtagct cctaagagag cttggaaaagg gatagagaag tctgacccaa atttgcgagg 120
sgactgagtg tatgctgccc cttttctggg ccttggtctt ttcctcaatc atctaggcac 180
agtccakatg ctgcctgttt ttgaggatgt gggaagggtc tgcaaataca gtgctttccc 240
attgacacac gctggtgagg atgcaagctc cctggcacca gcagtgaggg ctcagattgc 300
aagagtaaaa acttcatcac tgggaagaga agtctgcagg ggactggaag tgatctgaan 360
attctgaaat aactcttcct ctctctgcag a 391

```

<210> 1288

<211> 392

<212> DNA

<213> Homo sapiens

<400> 1288

```

gggaaaggag tgtttcccag acagcccagc ayctgcaggg gatggagggc acataagttt 60
gaatataaag ttttaacaaat caggggcagg gccagaggaa ccaagtccaa gctcttgggt 120
tcaactataa agtaccatgg aagtttgaaa actgaaagag atcaaaaagc tgtagaaga 180
aaacgcaggc atcaatcttt atgaccttcg attaggcagt ggtttcttag atatgacacc 240
aaaagcaaag caacaaaaga aagaaaactt aaagtggatg tcatcagaat gaaaaactct 300
tgtgcttcaa aggataccat cacattttat aattcatagr tctgataaag grcttgtrtt 360
aaggawtmc aaggacctcc acctccatta cc 392

```

<210> 1289

<211> 129

<212> DNA

<213> Homo sapiens

<400> 1289

```

agtgtaaagg tagccatctr aggaccagtg ctacacccaaa gaatactgat aagtgtttct 60
ggtgtgggag aaatraggrt tatttatata gggcaaaaaca gaggtgttga acaggattac 120

```

809

agcatttttt

129

<210> 1290

<211> 444

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (32)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (419)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (424)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (428)

<223> n equals a,t,g, or c

<400> 1290

```

gtccgggagc agtggttgga gttcncagag tnatgacgtg gagtggtctgg gcctggggcag 60
atgtgcacat cgtctgtact ctggatccct ggcccagaag gactcagatc ettacttcta 120
ggaattttca tttaatgaac attatgagaa ttggagggaag ggagaattcc ctttacagaa 180
tcaacccaag ttttctgcag ggatagggag cccttgtagt aagttatccc catagaaatg 240
aaaaccacgt ctccaccatg gctgttctta ctctctcaga gaagctctga taaatgaatc 300
ttcctggata tcctgatcat ttccattttc cactgtctcc attcctgctg ggaaccccag 360
ttggcggaca caggcagatg gccaggggac cttccacaaa gggccacagc ctgtggccng 420
ccantcantg tgcccttctt tgtg                                     444

```

<210> 1291

<211> 673

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (560)

<223> n equals a,t,g, or c

810

<400> 1291

```
gcacagtttc tctaatacatg gtcaacaaag atctgacagt gcatcggtccc taaacgaccc 60
atacttgccct cactgacacc atgtggccca cttcccatct ataatactatg tctgggtgtg 120
aagcccttcc catatgatcc cccgaatgga acttcacaag ttcgaattca ctgggtcaca 180
gtgtgatagc gtgaagatgg gaggacgtta agggaaggct atgggtgagt tgggaaatgt 240
gttaggcagg gtcagagatt accacatcct aaaaacaaca ctttaaggcgg gagatgacaa 300
aacaatcaat gaataacatg actttttcca gtgaaagtgc catatctaata ctttttccat 360
ttttgttctc tgagcttctt tcttagggaa gatccttctt gagaagcccc tgctgagtat 420
taggaaaatg catttcagga cctctcatca acacaccctc tttctttacc acaaccacat 480
atatgggggc ataactcaac atgtgtaaaa gacaatcttc tgcttttcac tgaacctcca 540
ggaattcagg acaataaayn tctacatgsa gaccaacagg tgagtttttc tgccccctct 600
ttcataacac cgttcttccc tagtgaagtc cacacacatc cttacatggc agctgtgggt 660
atatcaactg gtc 673
```

<210> 1292

<211> 372

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (356)

<223> n equals a,t,g, or c

<400> 1292

```
gccagaataa tattctctta ttgcatgta tctaccacat tttatttatt cattcagcga 60
cgggcagcag cctgtagata gttttgtttt catgtattga atggtccttt cccccagtgg 120
agttagtaaa tgcattccgga agcagaattc tgttggtttcc cattcatcac tgtgtgccag 180
gtgtctgaga aggggggtctt ataggagccc acgcaraaac caagctcacc tcagtctggg 240
tgtggggcag tcagggaagg cattctggaa aatgttagctg actcgaaata agcacctatt 300
graaatagtg tgcygagccc tggaacatta aaaatgtgtt cctatgtgga aatcanaaat 360
gtatgggtcc ca 372
```

<210> 1293

<211> 1204

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<400> 1293

```
aagcttcctt tgnnctagcc cggccgccac cgcggtgaac agacagctcc caggttccca 60
```


811

```

atatttatttaa tggcacgcta ccacctcagg agcgcacac tgctcaggag attgacagct 120
acttacgccg ggagctgac tacaagcgga atgagagaat aggggaagcgg gtgaaggccc 180
ttttggagga gttccctgac aaaggcttct tctttgcctt tggagctgct tcacagtgc 240
cttgaaaatc aggagccttg aactacagta gctgtgaaaa ctgtttgcct aatggttact 300
ggagggggaca gaatgggttc aaagtctctc caaagctcca tccttaaaga atcatcacta 360
tttgacatgt ccaatagttc cctgaaatct ccattcccaa gcttgtcttc atttgacctg 420
actcagagct tgctctgtgt gaatagccct attcttaggg tgtgtgttga aaacaatcag 480
tagcagctgt ttaacatcat agttgctgga aatagcaata ttaattgaag cttacaaggg 540
gctgcccaaa aaacttaaaa gcaaaatccc atagggggta tagaaaagct ctaaaatatt 600
cctagagagt cacatgcatg agaagagctg tgcacatgcc caggaaagac ctgagaaggt 660
cctaattctct cacctctggc tgatcttgag gctctgtgta agcagagtgt gaaagctaag 720
gcaaagtcac aaattgcctg ttgaagcatc aaatacatgc ccccaaactc acacagcccc 780
tctgcaaagg ttgggaaact tgcaaggaaat ttaaggaaat ctctgttcag tcattagcca 840
gccactaaac taactgagca gatccttcag tgatcacaca caacaaagaa tacagacttt 900
acagacttag tcctagaaaa tcactacaca aacagcaaca acaatgcacc tgggactaag 960
ggagaggaga tgagttccag agttggtata ttatttaaata gtctagtttt caataaaaaac 1020
aattataaga cacagagcaa aactagaaag tatggcccat acccagggaa aaacaagcaa 1080
ccaatagaag ctgtccttga ggaagttaat atcttggact tactagaaaa tgactttaac 1140
mctagtatta taaatatgtt cmaaaaaacta aaagaggcca ggtgcggagg ctcacgccta 1200
taat 1204

```

<210> 1294

<211> 474

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (450)

<223> n equals a,t,g, or c

<400> 1294

```

aagtgtgcaa aatagcatta tttctaaaaa gacaatgtat atatcttatt taaaaactat 60
tgtagaaaaa tgctaataatg catttgagct ttcagtaagt tgtaatcttt ttgggtggtag 120
agggtctcgc cttgatgttg atggctgctg actgaatcag ggtgatggtt gctgaagggt 180
gaggtggctg tggtatttaa aataaggcaa caatgaagtt tgccacattg actcttcctt 240
tcaccaaaga ttctctgtga gcatgtgaca ctgtttgata gcatattccc caccacagat 300
cttcttttcag aactgggggt gggacctggg gcacttgcag taatggttct aaaccttttg 360
ttgtcatttc aacaatgtgg cacagcatct ttcaccagra gttggattcc atctcaagga 420
aaccactttc tttggcttca gccgtaagan ggcaattccc ccgtttcaag tttt 474

```

<210> 1295

<211> 450

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (386)

<223> n equals a,t,g, or c

812

<220>

<221> misc feature

<222> (407)

<223> n equals a,t,g, or c

<400> 1295

```
gcgaaggcag aatcattttt tctacctgtc tgaatcagca ctttgtaagt ttacataaaa 60
ttaaggattg tgatttctaa gataggcatg ctttgcaaat atttctctat aaaagtggaa 120
gcctctttcc catagtgtc actttaaggc tttctgtagg cctgccgata agattcactg 180
ctgttcagggt acataagatg taatgtaatt ggatgcacat gctgggcttt gtaaataaaa 240
tgagattgac acccagcaat tatctcattt atctgattta cattgtaaaa tcaggatcta 300
cactattgat tagagcataa ttagttaatt atgaacaggg aaatacaaag ttacatggag 360
cttgagctca gcargttgta ctgctnaaaa atttccaagg gcatgancag atggaaatca 420
gtttattaaa gaacaaagca gacatgtttc 450
```

<210> 1296

<211> 393

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (379)

<223> n equals a,t,g, or c

<400> 1296

```
aaagctggta cgctgcagg taccgggccg gaattcccgg gtgcacccac gcgtccgcta 60
agattagaac agctcatagg agagtcatga ttttgaatca ccagataaa ggtggatctc 120
cttacgtagc agccaaaata aatgaagcaa aagacttgct agaaacaacc accaaacatt 180
gatgcttaag gaccacactg aaggaaaaaa aaagagggga cttcraaaaa aaaaaaagcc 240
ctgcaaaaata ttctaaaaca tggctctctt aattttctat atggattgac cacagtctta 300
tcttccacca ttaagctgta taacaataaa atgttaatat tcttgctttt tattatcttt 360
taaagatctc mtacaaaana aaaaaaaggg cgg 393
```

<210> 1297

<211> 627

<212> DNA

<213> Homo sapiens

<400> 1297

```
tgtcctagag atcctgagaa ttacttttaa taaaatcatt tttttgctgt tattaaaact 60
aacctgaatt gcctaaaacc aagaactctg cttgataaaa taagcatagt tttaggaaca 120
gccatgcaga tataaatttt atcaacactt tatacataat ttgggactta tatttaaatg 180
taatatttga tgcttataaa agggtaaatg gggaatgcaa ataaattatc aagcataata 240
actcatcacc taacttaaga ataacattat gagtgcttgt attttatcta tttgagctct 300
tctcctatct ttgccgaccc ccccgctctc tttttaatat atttgttcga atgtagaaaag 360
acctaaaata catatgtatc cctaaagtga cttattttat agttttcttt ctttttgaac 420
ttcaaaaaaa ttgtatcata ctctatgtag tctaaggatt tggttttttt cactcaacat 480
gtctctagaa ttcacaagtt ttattgtttt atagctgtca ttttcattga tgtatatttc 540
attgttgggt tataacaacat attgttaagg aatacataca tatataataa attatacatt 600
ttttaaaaaa aaaaaaaaaa aaaaaaa 627
```

813

<210> 1298
<211> 381
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (339)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (343)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (352)
<223> n equals a,t,g, or c

<400> 1298
gtgggcctta ggggtacagca gcgccgycag cgtttggktg catggcgccg ggggagggcg 60
ccctaaccga gaagctgctt aatacaaaga gctccaggct cctggcggtt caccaggtct 120
aaacagccgg gctttatttg tggggggcga tgaaaaaatt gaggggtcaag attgggggtgc 180
tgtgcaaata aatgcgttaa tactgttctt tttcttctt ctttgcagta gcctctagtt 240
cgttagtcaa aacgttgaaa aaaaatactg ctttgccttg ggaaataata accctgccaa 300
atactccact tggttgaaac aaaagatatt atggaactnc ttnaaaaaaa anctccacat 360
gcccattttt tttaccggtt t 381

<210> 1299
<211> 509
<212> DNA
<213> Homo sapiens

<400> 1299
gacattgtaa ccgcagattc agcccaatct ggttcaactt tgtgtaataa aatggcgagt 60
tgtttttcag ttgtcgtgga cccccagggt gcaagttaca taccctgggc atgtccagat 120
gaacgaagcg tgcaaatcca cgtggaacct aagtgtctag actgaggaac agggactgag 180
ttaagaagtg gacaccacgt ggcattgatc ttgatccaat cagattgagc cctggcggtga 240
tccagtcaga tcaagcctcc tgaatccctt cattacaaga tccaatcata tcatgcctca 300
ctaccctctg tatataaaat ctgccccagc ctccaacttg gagagacaga tttgggccag 360
actcctgtgt ccttgcttgg ctgccttgca ataaattttt ctctctacaa aaccccgagt 420
cttcagtgtt tggttttcca atgtgagcca gggaactgac ccaatttagt tcggcaacaa 480
cataagcaaa atgttttccc gagttctct 509

<210> 1300
<211> 452
<212> DNA
<213> Homo sapiens

814

<400> 1300

```

ggcagaggtg acaggtggtg ggggatgagc agggacgggc cagttttgta atctgggasa 60
gttttcaaga tgtattccct ctctgacatc tattaactag cacagagtct tcaggatatt 120
attaggtgct caataaaaagt ttattgtatg agaataagca atattttctt tatctctcat 180
ttggttgat ctttccctac tttgttattt cattttttct tacattttat cytygtattc 240
tgacactatt tcttagtttt gcttctgttt tccccagaag agtacttttg ttaaaatgta 300
tcacttgcaa aatagaataa cacaccgcca tgtagtggtg cttcagggtta taattttcca 360
tatatgtaca gtatgccaaa aaggatgctg cttctagaga gaatgtttaa aactcacttc 420
tctagatttt tttaaaagta ctttagtggt tc 452

```

<210> 1301

<211> 539

<212> DNA

<213> Homo sapiens

<400> 1301

```

gatcacttca tgttatgaag ctagtatagc cttcacacca tacagrctaa tctcactgat 60
gaataraagt atgtaattgt taattatyaa trtttagcaac ttgaatctac aggtgaytat 120
raagtatttt tttagtttga agatagtttt ttccaraaat ccaaggatgg cttaatcata 180
tggaataatc aagggcaaag ccaagccaag aaggcttgaa araagaacmc trgagatata 240
ttataatgct ctaataatta aaatggtgtg gtattagggt atgaatggat raacaracca 300
atggaacaaa attgcgaagc cagatagaaa tcaaccagtc tgtggatcta ttaatttatg 360
ggaatgtcct ttgtgagata tatcaattaa tgggaaaaag actgtttaaa acataattca 420
gtgacagttg actgtatgga agaaaacaaa attaaaccct tatttcattt ccagatggat 480
ttaagactca tgtaaaaaag taaaactttg aaactcagag aacaaaaaaa aaaaaaaaaa 539

```

<210> 1302

<211> 432

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (400)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (412)

<223> n equals a,t,g, or c

<400> 1302

```

gcaccagtgg catcgggacc agccccagtt tgaggtcgct gcagagcctg ctgggccccca 60
gttccaagtt ccgccatgct cagggcactg tcctgcaccg agacagccac atcaccaacc 120
tcaaggggct caacctcacc acacctggtg agagtgcagg cttctgtgcc aacaagctgc 180
gtgtggccgt gccgctgctc agcagcgs gacaggtggc tgtscttgag ctacggaagc 240
ctggccgcct gcccgacacg gcaactgccc cgctgcagaa tggggcagct gtgactgatc 300
tggcctggga cccctttgac ccccatcgcc tcgctgtggc tgggtgaggac gccagkatte 360
gactttgsg ggtaccgcga raagggcytk gaagargtgn tcaccamgsc anaaactgtg 420
cttacaaggc ca 432

```

815

<210> 1303
 <211> 421
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (11)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (12)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (294)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (344)
 <223> n equals a,t,g, or c

<400> 1303
 tagcagcccc nntcttttaa ggcctgacta cagaatccag cagcttttgt ctggagagct 60
 ggactgaaga gagggcatagc tggagaccca tagctggccc tggccagaam cagggagagt 120
 gaaaggctgg aatagccaag gccagagcaa ggctaatagg tagagcaaca gcttacaggt 180
 gtgggggtgg cagatactgg cacccttgaa atggattcct catgcccacg cttcactatt 240
 cttctctgtg gctaggggay ttatggataa accaaaatta cagttaaaaa ccanccatag 300
 gccaggcaca gtgactcacg cctttaatat cagcactttg ggangacaag gtgggcggat 360
 cacctgaaga tctggaattt gagaccagcc tggccaacat ggcgaaaacc catctctact 420
 a 421

<210> 1304
 <211> 815
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (217)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (223)
 <223> n equals a,t,g, or c

<400> 1304

816

```

cagacctgtg tctgatactg ratacagtgc catggggaccc tgctccaatc taactgccta 60
caacctgccc rtccccctgc tgcaggggatg ttgctgctac ctcggggaggc tctctgagac 120
tgggtgtctgg tcttagatgc tgcacatagt acctggtgct aggggtctagg ggctgccccaa 180
agcccagcag gaacagctac tactcatcct gcagagncct tgncccagac cagctttcca 240
tccaaagcct cacctggttt ccatgtccat ctcaacagtc tggccttcct gtgactgtag 300
cctggcagcc acaccctcag taatcccrca cagtgaagtc agcttctctg ggagcttggc 360
cttcagttag cccagtccat gagagggcag ggtaatgagg aggagtaaaag gacctatctt 420
ctctgtccac ataaggaagt tgggaccaca aggtctttta tctccttggt actccccaac 480
cccaccataa cctcctactc agcacacagc tttatcctgg tagattataa ggtgagcttc 540
cagaacctgg caggaggctg gtgtatcccc ctgcacagas ggaagtgtat ctgaatgttg 600
tgtatgtggc tgatatggaa gacatacatg tatgcaatcc atcagcgttt aaagaagaag 660
attggctcca gttckgagga ggaggaggaa gattacagat ctattctgag tatttttttag 720
agagttaata tttatatttt tagtaatttt ctggtagaag gaaattgcac aataaaatga 780
tttggtttgg wtwgaaaaaa aaaaaaaaaa aaaaaa 815

```

<210> 1305

<211> 529

<212> DNA

<213> Homo sapiens

<400> 1305

```

tcagtgtctt tcagtgtgtc aaagagyggg tctcaaaatc ttgcttaaag ggtaaytgag 60
atgtagcaga tttattttact tagtcatgga aagaaaaaaaaa ttcagtcaaa agctaaagat 120
ttccttttga ttgaagacag attggttctg tggccttgga actttcccag acttaatggg 180
gaaacatcat ttctagatta gcatactctt tggtttaaat ttaatatata catttaatgt 240
tacttaggga tactttttata ttttgcataat ataaagcctc atatataaag ccttattttct 300
gatgtctctta gatttctgag gagtgagatg attaagttgt attcattagt gtattggtat 360
ttcttcacat ccagtgaat tggaratatg ttgtatgtta gaagagcatt ctttaaaattg 420
tgttgtcttg aacatgtgta ccttttctag attcagtaat cccttcccc crkcmtytgg 480
agtatgaaac cttagagtc acaataaaat gtaactaaag aaaaaaaaaa 529

```

<210> 1306

<211> 921

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (88)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (207)

<223> n equals a,t,g, or c

<400> 1306

```

tagtaattat ggacttttaa aactatccat atataccatt ctaacaaggg actctgatat 60
gtcagagta gaggtatctt tctatggntc ctcaaatctc ccagggaatt cactatcacc 120
agaatatagt ctcagtgtcc aaagttagaa acaagcatat agtgagaatt catttggtta 180
tgtcttaaaa tattatttgt tttcctnttt ttgacagagt gaccttaaac ctgaaagtgg 240

```

817

```
tagcaaggta agaagtcagc ggtttgtctt gtgtttatat ttgtgtttac tcaagtagga 300
ctgcttttttg aaacattttt tcttaacaag agaagttaca aagtatttac tttttcccca 360
agcaaaaatc ctatttttct ggaatttgga ctcagtatca tctcaggaat aaaagaatag 420
ctgagtcttg aacagtagga aacattttgc taatgccttt atacgccttt ttttttaact 480
gaaactccaa agctatgccc tgtgtggttt tgaaagaaat tagtttatgg gttcagttgt 540
ggaaaaatat cttactttta cattatgtag gacaagtgat aataattgtt tctgtgttgg 600
aaaaaaataa ttgcaaagtt gttttgtttc ttatagggtta tcttctttat ctgtaataca 660
gaggcctttc tgtacttatt ttccaaattt aattcttttt tcttgtaggc tcaaacaggc 720
ccacaccctt cccggttact tagtaataca gcgaaaacaa aagactaagt atttgagtgt 780
ttgaaaactt taatgtgtac tacattgcat accaggaaga aaatatggaa ccattttctg 840
cctcccacag cyargtggtt cattccctta ttccctaaca attttcctta atttctgtcc 900
ttcagatagc tggtagacag c 921
```

<210> 1307

<211> 802

<212> DNA

<213> Homo sapiens

<400> 1307

```
acgacgggta acatccacgt gggcggggggt gggcggtgc ggccagccaa ggcccagggtc 60
cggttgaacc accctgctct cttggcctcc acacaggaat ctatgggcct tcacagggcc 120
caggggctcc tgatgcccc ttccacatgt gagccaggac atgaggcttc cctgaagcaa 180
ggatttcagc cagatgccat agaccctcag aacttgacct ggaagtccag aactgaacg 240
caggcctcaa aactgctgcg gccttccaac tcttgggtatc tgcctcggcg aatggccctt 300
cttgccctga tccacaggga tggggaaggg aatgtcatta atgttttgtt aatactgatt 360
ctttcatgca atgatgtgta ttttccatt ctggaggctg tgggagatga caagacaatg 420
aatgggaagg tctgacacag aacaaatcag cggttctgaa agcttgggga atctcagact 480
cctttgagaa ttattggaaa atggacccmc tawaacttgg cgtgtgtgtg aactgcttga 540
tgcccatcca ggaaagccaa gttaagaagc tttgcttcaa gtagacacta gaaatccatt 600
cccttggcaa tttatacagt tcacgtctcc caccatccgt tcctctcacc caccctgcca 660
tctctccacc tatccatctg gctattgctc catctagctt tcccgtcca tctacccatc 720
ttccaatcca tcatctcacg tatctgcctt gcttatccaa ctgtctgcct tattcaccca 780
cccatccctt tatcattcta ac 802
```

<210> 1308

<211> 379

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (175)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (182)

<223> n equals a,t,g, or c

<400> 1308

```
acaaaaaaaa aaaaaaaaaa aaaaaaaatt caggccgtta ctggagagtc ttggggaaat 60
```

818

```

tttttttttaa aatgtctgaa aattttttcca cttaatccat tgatgaattt caaagcaatt 120
gtatttttttc atacaagcct gccactgtga gcctgttctt attgtatctg agctntttgt 180
gntgcctgaa ttttgtctct taattttcttt tcagcttcat agtgwtccat tcttcaattg 240
tggtggaggg aaaaataatg gtagaaacta aaacacactt tgaccttttt tttccaattt 300
gtagatggca tttggtaggc ttttgggagt aatagcctat ttcaaaaatt aaaaggtgat 360
gcaaaaattat tgtgggagt                                     379

```

<210> 1309

<211> 1444

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (948)

<223> n equals a,t,g, or c

<400> 1309

```

acccacgcgt ccgctaaaaat atccccccaa accccagcaa tccaaaacac ttctggctct 60
aagcatttttg agtaggggat actcactcaa cctgtatatt tgtgctaata catgactcat 120
tagaatgatt ctttgtaaac ttaatatattt aaaagtacag cacttctgta gtatggaagg 180
tttcagtaat aattatattc attcagtagt ctcttaccat tatctcccag atggaaaaag 240
aggactaatg tggaaacccc agaggggtgtc cagttggacc agggagatat tagacactta 300
acagtatttt cagtctgtcc atctctttat tccaatgtga gaaatggaag tgtttttttt 360
tttacgttta ttggctcttc atatttctct acattatttt taatgtgcag tttcttcaat 420
tggttagtat ttccatacta tttgcaactt tatggccttt aaatatagga catattatat 480
agcagaaaatt ttgacttttaa atcctcttga gtagtatatt ttgagaagaa aagctatact 540
gctcttcttg atggttttcca tcctttattt aggtcttttc tttttgaatt caagtgtttt 600
gtatgcttag aaagtagaca tgtataatat tgagatcggg tatttctgag ctggaaattg 660
gaaacttttg aaactcagga aattgctctg acaatgtttt aactgctctc aatttaagaa 720
aatgacgaaa tgtataaaaa agacaaaaat aacgtgtgct gttttttcca agtgcttttt 780
ctaagtgcct ttccattgtg caatgagggt aagtttggtt atttttcggg ttagtagtta 840
aatattgctc aattttttatt tacatgtaaa gaaaacagat ttaaattgtt atgtggccaa 900
aaggtgtcat ttaaaaggta aaataagttt atgtagaatg tatgttcnat ggtgcttatt 960
tttaaaatgt aattcaagtt tacagtatta cttaatgctt ctttacagat ttaatagaga 1020
aacaaggcta gaacacatct acatcctgaa gagccgttta taacttcata ttatatgatg 1080
acaaagttca ttatttttct taaagttgag caattgactt ttatggcca atgatgaact 1140
tattattaat aaatgattga gttaactgtg aggcttctca ttaaaataca atattgcagc 1200
tatcagttgg agaatatatt ataaaatttt cagacagtat atcagaaaaa tgttttttatt 1260
tgtactgtat agaaaatgta attttgctgt taactctgta ctttttaaat tgaaaatgtt 1320
ttataaattt gcttttaaat tttcttatga agccatttgc aaattacata cttaatttaa 1380
taaaataactt tagccacaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaact 1440
cgag                                     1444

```

<210> 1310

<211> 353

<212> DNA

<213> Homo sapiens

<400> 1310

```

atgaaactga actatcttct ttttcttttt attccttctg ggataaagga gaagtaattg 60

```


819

```

taggaaaggt tatgaaacca ttttacggaa aagtagttag aaattaagcc aggacaatgt 120
cattaagtct tcagtgcacat ccctagggtac agcttttgtg ttttcatctc cttttgtgtt 180
ttcaagtgaa tagcagaaaa accctttaat ggtgtgcttc ctgtactggg ctacacagtg 240
gtgtwccaag gtatatatga aaccacagtg taaacaaggc ttgtcttccc aagacatcaa 300
ttttgataga aaawtgtgtg tgttcatgtg tgtgtgtgtg tctgggtgta atg 353

```

<210> 1311

<211> 927

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (729)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (773)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (889)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (903)

<223> n equals a,t,g, or c

<400> 1311

```

ttttgcaaata ataacaataa tagtaataac acaattttgt catttaaaaa attaccatt 60
catttttcaa acttgactgt tagtggaggg gtatatgtgt gtctgtgttt ccacttatgt 120
aatggctgtc tcattattta aattaattta taattatttt tcagtgtaca gagtgattag 180
cggcttgtaa tgctgttaca atgtagcatt gtaatgtaag atgaaggaaa aattaggatt 240
taggtgggat ttttaaaaaat ttatcaattc agctactttt taaaagaagt cctattccaa 300
ttggaccttt aaaattttta ttttggtaat atttcmactt argrtgtwtt aaaactrgcm 360
attctgtggt aatcagtgtg ctagtcaaca ttaaaatgct attttgggtt gtcttctttt 420
ggtaacatat tctgacacta agcaacatgt tttaacaatt agtggratga acctacaaat 480
tcataaatgc ttctctttat tttgaaggaa aaagatactt gtctgtatac gacataattg 540
ttttactctt cagaatgtga aagttatatt aatcactaaa cactttaaga agtggttctg 600
gtaggatatc agtagtcaga cttaattgaa aaactgtcag cgtctgtttt gtatataggg 660
attaaagagg ataactttat tttttccttt ggaaagaata attcttttgg aattttggaa 720
ttttgatntt cttagatgac ttttttagcaa tttaatgata ataatttcta ttnttcttcc 780
aaaactatgg catgttatag tagatcttac tattaaagat ctgtgtatat tttaaactgt 840
ttttttccta ttctgctttt tgctgtcttc aaagactgtg attgatganc atcaccaaac 900
ttnttttgtg ggcaaactgc ttattttt 927

```

<210> 1312

<211> 504

820

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (422)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (442)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (485)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (504)

<223> n equals a,t,g, or c

<400> 1312

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aatcatanca tttaatttta agattaagaa tattggcaaa gatttggtta tttttacctg 60
tctttattca aatgtttctaa tatacattag ttccaagttc tctattactt ctaaataagaa 120
tatacatgat caaaagagta tgcctctttc taaatgagaa aaactttata ttataaatcc 180
agtgatacgg atactatcca tcattttggtt ttgtatggcc taatgtatat cagtaaacta 240
aatagactta aatgtggctg gattttgact gggaatatgg gaagaacaaa gcagggtgaga 300
tcatgtatgt gactaaatat agcgttgatg cttaacgatg gcctctgagc atgttaagtg 360
tacttatatt ttgcagccaa aaactgtatg tatcaagctc caaccatcta taataaagtt 420
tnggggccag ttccaagatg gnaaccaagg gttttttttc cgagacgtta agaaaagtcc 480
ttcanccata attcttaacc ttcn 504

```

<210> 1313

<211> 864

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (815)

<223> n equals a,t,g, or c

<220>

<221> misc feature

821

<222> (848)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (862)

<223> n equals a,t,g, or c

<400> 1313

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ctgcttaatt gaagtgtaat ataggttgta gaattgttac ctgcagttct atgggttttgt 60
ttcacttctt ttctttttta aagccattct gttcttttga tgtgcttgaa aggggtgtgtg 120
attacaccat tgtaaagctt gggtaaaaac tatcttcttg cagccttgcc tcataacagt 180
ggaatttctg atagacaaac cacaggactt tgattttaag ccaaattccat ctccatccct 240
ttactgtcaa tcttctgtcc cagtagttta gcctttgtgg cttaggttat gatgcgcctc 300
cttctgtgcg accaatgaga cgacttcagc atctttttta aataatctaa gcatcattga 360
agcagtaaca caaaaaaaag gttcagtatt ttcttttttag tataacttac atccttttcaa 420
ataagtcttt gccctcatga agaatcccta gaggaagata aggaaaataa gtattttcca 480
gttttgcttg acagtttcta aacaaacaaa aataaaactca atgaaaggaa agatgtttct 540
tttttagctga gatgacagat tgcttctctg tattaaatag tctagaagtt aaggggatgg 600
tcacattttac catgtattgt gttattagca gttaaatttt atgaatatgt ttgtaaaatt 660
gttgttttat atttcatgtc aaattgaaaa gtttatttct tctactattgt acctgtggaa 720
atacaagcca ttttacagga aaaaatcttc aaaaactatt aaatggatat cagcctgttt 780
tgtgagccat tgtcttcaga ttctgtgggt gtccnggggt catagggcat tagtaggttg 840
tacgggtnga ccgatttttc cntc 864
```

<210> 1314

<211> 869

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (46)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (194)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (784)

<223> n equals a,t,g, or c

<220>

822

<221> misc feature
 <222> (836)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (852)
 <223> n equals a,t,g, or c

<400> 1314
 tnaaccctca ctaaagggaa caaaagctgg agctccaccg cgggtgncgac cgctctagaa 60
 ctagtggatc ccccgggctg caggaattcg gcacgaggaa cagccaaagt ttatggaatg 120
 gtgtgctgag gaggagaacc aagagctcat cgccaacttc aatgcccagt acatgaaagt 180
 tcagaagggc tggntccagt tggagaaaga aggacagcca acaccaagag caaggaacaa 240
 atcagataaa ctgaaagaga tttggaaaag caagaaaagg tcacggaaat gtaggagttc 300
 attggagagt cagaagtgtt ctctgtttca gatgctcttt atgacaaact ttaaattatc 360
 taatgtttgt aaatggttct tagagacaac tgaaacccgg tctctagtca ttgtgaagaa 420
 gctcaatact cgccttccag gagacgttcc ccctgtcaag catcctcttc agaaatacgc 480
 tccttccagc ctatatccca gttcactaca ggctgagcgc ttgaaaaagc acttgaagaa 540
 atttcctgga gctacccctg ctaagaataa ttggaaaatg cagaagctct gggccaaact 600
 ttcgagagaa tcctgatcaa cgtggagcca gaagatggca gtgatgtcag ccccggccct 660
 aattctgaag acagcataga ggaagtcaag gaagatagaa acagtcatcc tccagcaaac 720
 ctgcccactc cagccagtac cgggattctt agaaaatatt ccaatattcg aggaaagctc 780
 agancccgac aacgttttaa tcaagaatga gaaaatggaa tgcccagatt gctctnggtt 840
 gttggaagtt angccaagtt cgtaagagc 869

<210> 1315
 <211> 1832
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1823)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1829)
 <223> n equals a,t,g, or c

<400> 1315
 gccggtggct gctgtctctg ggccgggccgt gggaggtccc cgaggtgggg gccggggcgg 60
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 cccgccggcg ctgctgagtt tcttcatcta caaccgcgc ttcggggccgc gcgaaggaca 180
 ggagggaaat aagattttat tttatcatcc aaatgaggta gaaaagaatg agaagattag 240
 aaatgtcggg ttgtgtgaag ctattgtaca gtttacaagg acatttagcc catcaaaacc 300
 tgcaaaatct ttacatacac agaagaacag acagttcttc aatgaaccag aagaaaaatt 360
 ctggatggtc atggttggtc ggartcctat aattgaaaaa cagagtaaag atggaaaaacc 420
 agttattgaa tatcaagagg aggagttgtt ggacaagggt tatagctcgg tgctgcggca 480
 gtgctacagc atgtacaagc tttttaatgg tacatttctg aaagccatgg aagacggagg 540

823

```

cgtcaagctt ctgaaagaaa gattagagaa attcttccat cggatatttgc aaacgctaca 600
tttgacgtca tgtgacctac ttgacatttt tgggtggaatc agcttcttcc cgttggataa 660
aatgacttat ttgaaaatcc agtcctttat taatagaatg gaggaaagcc tgaatatagt 720
caaatacact gcttttctct ataacgatca gctcatctgg agtggattag aacaagatga 780
catgagaatt ttatacaaat accttaccac ctccctttty ccaaggcaca tcgaacctga 840
gttagcagga agggattctc caataagagc agaaatgcc a gaaatcttc aacactatgg 900
aagatttctt accggaccct tgaacctcaa tgatccagat gcaaaatgca gattcccca 960
aatttttgta aatacagatg acacttatga agagctccat ttaatcgttt ataaggccat 1020
gagtgcggct gtgtgcttta tgatcgacgc ctctgtccac ccaacgttgg atttttgccg 1080
aagactggac agcatcgttg ggccccagct cacagtgtcg gcctctgaca tctgtgaaca 1140
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cttcaaccac atgaatctcg ccgagaagag cacagttcac atgaggaaaa cgcccagcgt 1260
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taccagagtg gatgaagatg aggagatcat tgtgaaggcc atgagtgatt actgggttgt 1380
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cttggattga cggatgacgg ctccacygaga gcatatctaa aaaacactct gcaaacattt 1560
ggtcacatgc aagttagtgg tcatatgacg gactgcattc aggacaaggg taaagcaata 1620
cttgctttga agaatacat ttcgactcgg tctgctgac tgaggttttt agatttttaa 1680
tatttatgtg gaattaatta aaggtagttg gctatatcgc tatcatttca ttcttttgac 1740
attatgtgaa tattttactg gaaaataaga ctaataaatt gttaaaagtt tttaaaaaaa 1800
aaaaaaaaaa aaacggggggg ccncccaana gg 1832

```

<210> 1316

<211> 656

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (577)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (598)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (611)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (647)

<223> n equals a,t,g, or c

<400> 1316

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ggagttatca agtggaggag ggattagaac ccaggatatct tgagcccaag caatttgaag 60
gtgtttaagc taattctttt ctatgttttt ctggctgttt atgtactttt gaagtcttta 120

```

824

```

tctttctgtg ttaaaatatg tctatcggtta ttgcatttta cagcatcaaa aattaagaat 180
acttacattc ttctayaaat tgatgcttca aaatagaaaa tttggaattt cagaagctcc 240
agtacagtaa ctaatctgaa attattgatg cattttcttt cgtcagggaa taactttgaa 300
agattcaaat gatttcaaaa tccaactttc taacgtctgg gagagaattc ctcaaacaca 360
tttagcagtc aaaacaattc tatagagtat aaaagatgaa gcatggcact tcgaagtaaa 420
ggttacagtt tctataaatg agaaaaggcc gaatatttgc tagcaaaata tttttagcag 480
gaaagaattt actttgggag gtacttaggc atgttatatt aatactaatt tacaagttca 540
gcaatttgta ggagtggaaa gaattggatt aaagtanaaa gtcttaatat ctacacnntt 600
aaaatgggga naagcctgtg aatgtgactt aatcaaatcc tggtagntaa accagt 656

```

<210> 1317

<211> 2520

<212> DNA

<213> Homo sapiens

<400> 1317

```

ggcactggag tccgagtcctg cgcactcggt acctgaacag gcgttacagg ccctttggcg 60
cctgcgtatt cgtgaagtgt gaaaaaagcg cgctctgtt gggacgggaa atcagccttt 120
ctattgggtca gggtagaaaa ccccgctttt gaggcatttt caaccaatgg aagcgcgga 180
ttcttcattt aaactgtcta taaatttctg cctagtcaaa gttaagagtg gcgccakgga 240
tttgaaccgc gctgacgaag tttggtgatc catcttccga gtatcgccgg gatttcgaat 300
cgcgatgatc atccccctctc tagaggagct ggactccctc aagtacagtg acctgcagaa 360
cttagccaag agtctgggtc tccgggccaa cctgagggca accaagttgt taaaagcctt 420
gaaaggctac attaaacatg aggcaagaaa aggaaatgag aatcaggatg aaagtcaaac 480
ttctgcatcc tcttgtgatg agactgagat acagatcagc aaccaggaag aagctgagag 540
acagccactt ggccatgtca ccaaaacaag gagaaggtgc aagactgtcc gtgtggaccc 600
tgactcacag cagaatcatt cagagataaa aataagtaat cccactgaat tccagaatca 660
tgaaaagcag gaaagccagg atctcagagc tactgcaaaa gttccttctc caccagacga 720
gcaccaagaa gctgagaatg ctgtttcctc aggtaacaga gattcaaaagg taccttcaga 780
aggaaaagaaa tctctctaca cagatgagtc atccaaacct ggaaaaaata aaagaactgc 840
aatcactact ccaaacttta agaagcttca tgaagctcat ttttaaggaaa tggagtccat 900
tgatcaatat attgagagaa aaaaagaaaca ttttgaagaa cacaattcca tgaatgaact 960
gaagcagcag cccatcaata agggaggggt caggactcca gtacctcaa gaggaagact 1020
ctctgtggct tctactccca tcagccaacg acgctcgcaa ggccggtctt gtggccctgc 1080
aagtcagagt accttgggtc tgaaggggtc actcaagcgc tctgctatct ctgcagctaa 1140
aacgggtgtc aggtttttcag ctgtacttaa agataatgag cataagcgtt cactgaccaa 1200
gactccagcc agaaagtctg cacatgtgac cgtgtctggg ggcacccmaa aaggcgaggc 1260
tgtgcttggg acacacaaat taaagaccat cacggggaat tctgctgctg ttattacccc 1320
attcaagttg acaactgagg caacgcagac tccagtctcc aataagaaac cagtgtttga 1380
tcttaaagca agtttgtctc gtccctcaa ctatgaacca cacaaaggaa agctaaaacc 1440
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caagaaaact tacaaacaac cccatctcca gacaaaggaa gagcaacgga agaaacgcga 1560
gcaagaacga aaggagaaga aagcaaaggt tttgggaatg cgaagggggc tcattttggc 1620
tgaagattaa taatttttta acatcttgta aatattcctg tattctcaac ttttttctt 1680
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ggtttctaac gagacccatc ctaaaattct gtttctagat ttttaatgtc aagttcccaa 1920
gttccccctg ctggtttctaa tattaacaga actgcagtct tctgctagcc aatagcattt 1980
acctgatggc agctagttat gcaagcttca ggagaatttg aacaataaca agaatagggg 2040
aagctgggat agaaaggcca cctcttact ctctatagaa tatagtaacc tttatgaaac 2100

```

825

```

ggggccatat agtttgggta tgacatcaat attttaccta ggtgaaattg tttaggctta 2160
tgtaccttcg ttcaaataac ctcatgtaat tgccatctgt cactcactat attcacaaaa 2220
ataaaactct acaactcatt ctaacattgc ttacttaaaa gctacatagc cctatcgaaa 2280
tgcgaggatt aatgctttta tgcttttaga gacagggtct cactgtgttg cccaggctgg 2340
tctcaaactc caccaaagt acttcttatt cattttatgg aaaagactag gckttgctta 2400
gtatcatgtc catgtttcct tcacctcagt ggagcttctg agttttatac tgctcaagat 2460
cgtcataaat aaaatttttt ctcattmaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2520

```

<210> 1318

<211> 582

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (405)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (530)

<223> n equals a,t,g, or c

<400> 1318

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aaatatgtgt cttttacagt cttttgtcat tctgacattt ctggattttt gctgttttat 60
aattttaccct ttgttattca gaagcatgct tacttataga aactaaatgg tctttataaa 120
agtaattact taaaaagaaa tctggggaag aaagatatct atctaatact ttaaatacttt 180
ataaaacatt acattgcaga gggggagcta ctctaaata ttttcatgat ttgcatgggt 240
taatcagatt tttttttttt tacaccatat tagctacctt ttcaatggag aagagacagt 300
tcacacaatt ccctgrttag cacagatgtg gactgagtgc tttgtcacct gcagrgtagt 360
aamccagtga tgtttcttac agaagcacia tatgttgaaa atccnggggtg tgaccaatat 420
ggaataaaga agaaggcaga aagagagcaa atgaaaaatt tcaacttgta tattcatttt 480
ttacattttg ctttgacttt taaatttagg aagtcctgtt ttacctgagn acaaatgttt 540
aaagttcctg cgtcactctc agtactctca ctgccccctc ca 582

```

<210> 1319

<211> 1099

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1077)

<223> n equals a,t,g, or c

<400> 1319

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agccgggagg cgggaggcgg cgcccgccgc ggctgctgct gctgcagtgg gacagggtggc 60
ggcgaccggc ggcgtccgag gagatttaac ccagagactg acttcactat agaaccacaca 120
gttgatatcaa tggttgggga aagatagtgg caacaggcaa aggagaaaaca gctctgacat 180
acaaagaaaa tgagtatgct aaagccaagt gggcttaagg cccccaccaa gatcctgaag 240
cctggaagca cagctctgaa gacacctacg gctgttgtag ctccagtaga aaaaaccata 300

```

826

```

tccagtgtaaa aagcatcaag cactccatca tctgagactc aggaggaatt tgtggatgac 360
ttttcgagttg gggagcgagt ttgggtgaat ggaaataagc ctggatttat ccagtttctt 420
ggagaaaccc agtttgcacc aggccagtgg gctggaattg ttttagatga acccataggc 480
aagaacgatg gttcgggtggc aggagttcgg tatttccagt gtgaaccttt aaagggcata 540
tttacccgac cttcaaagtt aacaaggaag gtgcaagcag aagatgaagc taatggcctg 600
cagacaacgc ccgcttyccg agctacttca ccgctgtgca cttctacggc cagcatgggtg 660
tcttcctccc cctccacccc ttcaaacatc cctcagaaac catcacagcc agcagcaaag 720
gaaccttcag ctacgcctcc gatcagcaac cttacaaaaa ctgccagtga atctatctcc 780
aacctttcag aggctggctc aatcaagaaa ggagaaagag agctcaaaat cggagacaga 840
gtattggttg gtggcactaa ggctgggtga gtccggtttc ttggggagac cgactttgcc 900
aaggggggart ggtgtggcgt ggagttagat gagccacttg ggaagaatga tggcgctgtt 960
gctggaacaa ggtattttca gtgtcaaccc aaatatggct tgttcgctcc tgtccacaaa 1020
gttaccaaga ttggcttccc ttccactaca ccagccaaag ccaaggccaa cgcatanggc 1080
gaattatggc gaccacgtc                                     1099

```

<210> 1320

<211> 722

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (654)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (663)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (714)

<223> n equals a,t,g, or c

<400> 1320

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ggcctgatcc aagtgaccat tttcctttta gtttgacttt gggtgagttg cttagcttct 60
ctgagcctca ttttcttcat ctgtaaaatg ggggtgggtca gcattgttgt tggaggaacc 120
gaatgcctca cccatggttg gtacttcata ctgttagtgg tgggcagggtg tcctgtcagc 180
ccctccaag gaattcacca cccagcgagg ccactaaaac ctccagagta agtcaatcag 240
ccatactaag gaaagtgcta agggggacag acaagggtgag aagagaatcc tgtgggctgg 300
aggctgcaag gaataagcca agtagaagga gaggaatccc agcgggagga atggggggag 360
caggggcttg ggagatgagg acaggcttag tgatggtttg tgggagacag ctcttgaggt 420
ggagagcagg aggtaggggg tgagacaaaa gtagaagagg gcttcagacc gcaggcccac 480
aaggaggagg tccatgagcc cctgaagctg tttgcacaaat tgttcctgta catgtatttt 540
tctgcgcaag actctgtggt ttcacagat tcttcaagta gtctggggcc attaagawtc 600
cctggtccag ctgggtgctg tgactcatgc cttataatct tcagcacttt ggggnagggcc 660
ganggcaggg agggatctgc ctagagccca ggaagttttg gaggaccagc ctgnnggacaa 720
ac                                     722

```

<210> 1321

827

<211> 255
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (224)
<223> n equals a,t,g, or c

<400> 1321
atttacgtat gttacat ttt taagtatgag ttaaattgat ataaagtgtt cctcaatatt 60
taataatgta agctgttgat atgacagtat tttttaaaaa taataacgta tattatagtt 120
acgaaacact tgtgccagat tagaacatca agcacagaag cagctgtatg atttacctgt 180
twttttgaaa ctttaattgtt taccttcccc katgtttaat ttttctgtgg tgaacacttt 240
tgttagaaca tggct 255

<210> 1322
<211> 246
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (61)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (98)
<223> n equals a,t,g, or c

<400> 1322
gcaaaaatac cataaaactgg gtgtcttaca aacattttctg aaagttctgg aggctgggaa 60
ntctaagggtc aagggtccag caggtttggt gtctggcnag ggcccatcc tcaactgcctt 120
cttgctgtgt cactgcatgg tgggaggggc aagcaagctc ccaaggcctc ttttacagcg 180
gcccarrattc cattgggtgag ggttctgcca tcatcacatc atcaccaagt caccttcagg 240
gctagg 246

<210> 1323
<211> 339
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (230)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (309)

828

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (314)

<223> n equals a,t,g, or c

<400> 1323

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gaaaaacaag aaatagaaaa aaaggaagaa ggctgaacta aagcactaat tttatagggtt 60
tagttttgtc agaatttagg acatttggaa tcctaacatt aaaagggaat ttatagawgt 120
ctgttcatac cttgtacagg aattctttgt acagcatccc tgtggaaggg cattttaacc 180
cacattcaat tccttcagtc ctaagaacca gctccaaggc agcttgctcn tctagctccg 240
tagtagccac cctggactta catgtttgaa tgcacctggg agggttttaa aagatcaagt 300
tgcccaggnc acanctgcaa accaattaaa atcagaatt 339

```

<210> 1324

<211> 366

<212> DNA

<213> Homo sapiens

<400> 1324

```

caatgccctt watatgtsct ctktgttcag ggaccytggc aggaaacact cgaattgggt 60
gatttragga gatttggtta aggggacagt ttacaaagct gtgggcatgt ataggaaagc 120
gcaagggata ggacagggtg ccgggctatt tatagtata ttcacctctg gcctgatact 180
gggaggaggg ggggtgctcc ctgggacaag accctatgga tgaggcttcc tgacaagggg 240
agactgtgac cgtgctccct cctaccagag ctccctactg gccagccca agcagaaaca 300
agagcccatt cacgtccatt cgtgtcatct cccaccgccc agtgcagagt ggagaaaagg 360
tctgga 366

```

<210> 1325

<211> 431

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (369)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (404)

<223> n equals a,t,g, or c

<400> 1325

```

aaacaatttg cttctggaaa caggacagcc ggggccgtgt tcctgcaaca gcagaccaag 60
caccgcgggc ggacccaggc aagcacggaa caagctgaga cggatgataa tatggataca 120
aaatctattc tagaagaact tcttctcaaa agatcacagc tcttagaaat gtgctacgat 180
gtctgtgaag gcatggcctt cttggagagt caccaattca tacaccggga cttggctgct 240
cgtaactgct tgggtggacag agatctctgt gtgaaagtat ctgacttttg aatgacaagg 300
tatgttcttg atgaccagta tgtcagttca gtcggaacaa agtttccagt caagtgggtca 360

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829

gctccagang tgtttcatta cttcaaatac agcagcaagt ccanacgtat gggcatttgg 420
 gatcctgatg t 431

<210> 1326
 <211> 424
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (48)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (138)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (295)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (392)
 <223> n equals a,t,g, or c

<400> 1326
 taatttttcta ttttttagtag agaagggggtt tctccacgtt ggtcaggntg gtctggaact 60
 cccgatctca ggtgatccac ctgcctccca aagtgtctggg attacaggcg tgagcaccac 120
 gcccaggctc tgacattntt gaatatccct atcaaccct ctcaccacc caaagcctgc 180
 tgctcaaagc agctctaagc agaagagatg gagaaacatt cagactgggt ggagcatggc 240
 ccaggctgtg ttgtgccc cttctgtcta gatgggcagt tcttgacttc cccgctgac 300
 gctgctgagc agccacagtc ccgactgcat tctggcttgt acccttacta tagtgccagc 360
 cacagagagc agccagcagc attttaagta gncaggaaag gcccttctca cagcagtgtc 420
 tggg 424

<210> 1327
 <211> 315
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (303)
 <223> n equals a,t,g, or c

<400> 1327
 gcttttttct aattgaagct tggcaagcrg agggaaatgt attagggaaa tagcttttagt 60
 tttgagtggg tgctagtagc cagctgaaga aaaagcmaaa tgaaataggt agtagaaatg 120

830

```

agaagggaga gagggaaaga aagaaaaaaa tggatggttg aaattttgtt gcatgttctc 180
tctggatact ccaaaattat cattgtgggtt attgcctcac ttggcttttg ttagccatga 240
aaaaccagga acatttccac taccatttcc tgaccatcca tcaaccacaa tttttaggca 300
ttnggttaaa atttt                                     315

```

<210> 1328

<211> 1867

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (84)

<223> n equals a,t,g, or c

<400> 1328

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cagtttctca agcgaccgat gttgaggttg gaactgacct tgtecccttct gtcacgggtga 60
aggtcacact gcagaacaga gtantattgc aaaaagccaa attatcagtc tacgtgcaac 120
caccattaga attgacttgt gatcagttca cctttgaatt tatgaatcga aatcctgatg 180
gcattccgcg agttatccaa tgtaaattta gacttcccct aaagttaatt tgcctaccag 240
gtcagccttc aaaaactgca agccacaaaa ttactattga taccaacaaa tctccagtca 300
gtcttcttag tctcttccca ggttttgcca gtcagtcaga tgatgatcag gtgaatgtaa 360
tgggttttca cttcttagga ggtgctcgaa ttactgttct tgcttccaaa acttctcaac 420
gatatcgcat tcagagtga caatttgaag atctttggct cataaccaat gagcttattc 480
ttcgccctca agaatatattt gaaaaacagg gagtcaaaga ttttgcattg tctttttcgg 540
gatctatacc ccttcaagaa tattttgagt tgattgatca tcattttgag ctacggataa 600
atggtgaaaa attagaagaa ctcttatctg agagagctgt acaatttcgg gccattcaac 660
gccggctact agcaagattc aaagataaaa ctctgcccc tcttcaacac ctggacacct 720
tgtagatgg aacctacaag caggtaattg ctctagcaga tgcagtggag gaaaaccaag 780
gcaatctgtt ccagtcattc accaggctga agagtgccac ccatttggtg attctgctga 840
tcgcgctgtg gcagaagctt agtgctgacc aggttgetat tctggaagcg gcatttctgc 900
cgctacaaga agacactcaa gaattgggct ggggaagaaac ggtggatgcc gccatttccc 960
acctgttgaa gacttgccctg tcgaagagtt ctaaggagca ggctttgaac ctcaacagcc 1020
agctgaacat acccaaagac acaagccaa tgaagaaaca tatcaccttg ctctgcgata 1080
gattatccaa aggtggccgt ctctgcctaa gtaccgatgc agcagcccca cagaccatgg 1140
tcatgccagg tggttgactt acaatcccag agtcagacct agaagaaaga tcagtagaac 1200
aagactctac agaactgttt accaaccaca gacatctcac tgcagagaca cccaggcctg 1260
aagtttccac cctccaagga gtctcggaat aattcaagta gagttgtttg gttgagagga 1320
acatccccat ctcaaggccg aacctgtgtg aacctcatgc caagcacaga tatagggtctg 1380
gcgcaggtgc ttcctaaagc tcaccttctt ggagatgaca tgcatagaaa gaggggttgg 1440
gactttttac ttcactagga gaacttgtaa caccatgggg aagtcagctg aaacttgtct 1500
tgttttgcca ggaaaggaag tagttgcctt tggatcatcca tctgctaata gtcacagaat 1560
acagtgaat gacatagttt tgggttagat ttataatgc aaagattcag atccaaaata 1620
atttcatacc ccattttttc acagaattct tatatagtaa atgtatcaag ttttaataaag 1680
catctcattg tcaaataata tcttggattt tatttataat tagagggatt tatgagtgat 1740
tgctctacat tatttcttca aaggaaagga aaggaattga agactttgct actctctggt 1800
aagacttgaa tgtgattatt ttataaataa ragaaccact atgaaacttt aaaaaaaaaa 1860
agtcgac                                     1867

```

<210> 1329

<211> 537

831

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (130)

<223> n equals a,t,g, or c

<400> 1329

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ggttaaaata taaccacaat gaatccgaca agtcactgca aggactgtgt gctttatttt 60
gatttgtcat caggaatagg cgatacactg tttggacatc atgaaggaaac aatgcaaaat 120
ccatcctttn aaaattcatt ttttaagttcc atagaagatc caaaaaacca gactttttaga 180
gtataagcag tcaaaacttaa gaaaatatta tattttactta tgaatagatg ctaagtcaaa 240
agtaagtccc taataaaattt taatgtactg ttgttccacta aatgttccta gtcatttggg 300
ctcagtagtt cagtcattta tcataatgtg tatcaagata gttactggat attgaggtat 360
tgtttataac attacaaata gaaaaatcct agtgtttggg ataggaaatt aatcatatct 420
tgtcgatcca aacagtggag tgcttttctg gacattatag atgataatgt aggtatttgt 480
tgatatacag agataccaga aaaaagccca tattttacgat ccaatgccta ttttgta 537

```

<210> 1330

<211> 1351

<212> DNA

<213> Homo sapiens

<400> 1330

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ctcagactgg tctcaaacac ctggcctcaa gtgatcctcc tgctcagtc tcccaaattgc 60
tgtgattaca ggcacaagct actgcaccag gcctctgact acatttctat taatatgggt 120
aggttggagg ttttagtatt tttgtatctc atatttgtat caatatgact ggcttctttg 180
tctgtagtgt gtggtaatat tagttctgta aactgtcagt tgcaaaaaaa aaaaatacct 240
tgaactatag tatatgttga taattagcca taataatttc ttagttaatt tcttataatt 300
aaatttgtca aagaggaaac ttacagttta tatctgatga aatctctaaa aagatgggta 360
aaacattggg aaatgtatgc atgtacttca ctctggtttc atagggtag caagtgtctt 420
aaaaacatat ataaagaagc acagagattg ttagggagata tttatgctcc cagttttaat 480
aattgggata ctttgtatac cacagaaaga aaaattacta aactcctctt tttttagtca 540
aaattggaaa aaaagtctta attgacagtt actatgcctg tgctacccat agcaagtatt 600
cagtggaaaa tactttacta agtaagtaat ttgaacacag cttaaaatcc atagtatgtt 660
acaattgcta gcctttcaca aagtttgcac tgtcttaatg tagaaggata ctgtgatcta 720
agaattcaca attttaaaaa gtggaaccta aataggggtt cctaattgcc atgaagtatt 780
ttgtatctta gatgaattat atttacaaca ttgtaaatgt cagtgggtga tccaraataa 840
attgtttrrag ttattaraat gtacatttra gtaggtttca gtttgactag aaataattgg 900
caagaaggca agaactagtc ttctagagca gggatcccat ccccgaggtc atggactggg 960
actgggtccat ggctgttag aaaccaggcc acacagcagg agatgagtgg aaagcaagtg 1020
aaacttcatg ggtattttaca gcaattcccc gtcgctcgca ttaccacctg agctgtgtct 1080
cctgtgagat cagcagcagc attagattct caaggagcac aaaccctttt ggaactgtgt 1140
gtgagggatc taagttgctc atttcttatg agaatctaata acctgatgat ctgttgttgt 1200
ctcccaccac cccagatgg gaccatctag ttgcaggaaa acaagctcag gctcccactg 1260
attctayatt atagttagtt gtgtaattat ttcattatat ataacaatgt aataataata 1320
gaaataaagt acataataaa tgtaaaaaaa a 1351

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<210> 1331

<211> 1231

832

<212> DNA

<213> Homo sapiens

<400> 1331

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tgcaagcggg cttctctgtc ttctttatgg ccagtaaaat tctccagaag agatttatgg 120
cagcctcact ccagtagt ttctgcattta gtgagataag gaatggattt tcttctgtgt 180
attgctgaca cgaacaggag acggaaatac tgagtagaag agrgcgggtt cctgctaagg 240
ccccaccctc aagcctggat acccgcggcc ctaaatagaga agaggcggtt ctgtttgggg 300
ccccaaaaagt tgccttttga cccaccacgc cccctatcct gccccatat aaaccccaaa 360
ccccaacctc cagagcatac cagcaggtga ggagatacga ggcaagccga ctgacggcaa 420
aacgacgtag cagagaaaaga gagaagagga gggacgtctg gacaccgaga gatgtttggc 480
tcggggcagt cagagcggag tccagccctt gggcggtcca actccagggg aagatcacct 540
tcccacttca tccatcccca ccttccagc tcccatacca tcctgctgaa agccatttcc 600
accactcaat aaaacctcgc attcatcctt caagtccgtg tgtgaccgga ttttctctgg 660
attctggaaa agagctcggg atacagaaaag ctgtcccttg gtcttttgcc cttgtgaaaa 720
agcagaaggt ccattgagct ggtaaacact ccagctgtct gtggtggcca agctgaaaga 780
gctttgtaac actgggggtg caggcaccca cctctagacg ctaccgcaga gccagagccc 840
aaagccctca ccccggcctc tgcacttgcc catctgcgtg ctccccctct cgcaaggggt 900
ttctgcagag ggggctactg aacagggtgag ccacacccct gtgcacgcc ctgcaagggg 960
aatcagggaa ctcttccgtt tcattgcttt gaccacatcc tataaatctt gttctccttg 1020
tctttcagct ccaatttggt tatacattca gtttttactt ttgactttac tcatgattta 1080
ttatagaaaag atgtttaaca attttcaagc aaatggaata atttttgtct ctctttcgtt 1140
gttaatttat tattcattgg agttagaaaa ttgttgctaa aataaattct gcattttgaa 1200
atttaaaaaa aaaaaaaaaa aaaaaaaaaa g 1231
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<210> 1332

<211> 1280

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (47)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (83)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (121)

<223> n equals a,t,g, or c

833

<220>
 <221> misc feature
 <222> (133)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (154)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1166)
 <223> n equals a,t,g, or c

<400> 1332
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 gctcactcat taggcacccc agnctttaca ctttatgctt cccggctcgt atgttgtgtg 120
 naattgtgag cgnataccaa tttcacacag gaancagcta tgaccatgat tacgccaagc 180
 tctaatacga ctcaactatag ggaaagctgg tacgcctgca ggtaccggtc cggaattccc 240
 gggtcgaccc acgcgtccgg gaggcagagg ttgcagtggc ccgagattgc gccactgcac 300
 tccagcctgg gtaacagagc aagactccat ctcaaaaaaa gaaagaaaga aaaaagaaag 360
 tacaagttta taaagtatta tagtgaaaaa ttgcgattct ggctgatttt aagccattta 420
 aaattttatat aaaacaacct tccataaaaa tttgacagggt gccagatgt tgctttctcc 480
 attttattttt tgtttttttt taatcacagt aggtctgata gagaattgga gctaaattat 540
 aatattttttg ttggtaaagt tgagttatat acttgtagat acaatggaaa tgcttttagt 600
 agtgattatt tagcaatttt tgtttttgtt atattaggca tgtttggagg ctttcctatt 660
 ctagcattta aattttaaatt ttattaaaaa taaataaatt aaatctagca tttaaattta 720
 aataatttaa gtctagcatt tactttttaa taattataat gaagttttga aataactaagt 780
 taatccagac ctttagttgt cccatgggtg taataaagtt gccaaagaag atgtattatg 840
 aacaattcag caataagaca attgtcaaca cagttgagaa taacaatggg aatcgttagt 900
 aatattttaga attggaattt gcctactgaa atagttatag atgattactt gtgatgtgaa 960
 actgaattga gcatgacaac cagacatttc cagttgggtt tgtaagtttt gagaatctag 1020
 atactgggtt ttattttttt aaagattagc tctgtttgta agggctgatt ccttgaaaaa 1080
 gtaattttcc agaaaaacac ctaaagaaaa taaaacatgg acatgcctag taaaaaaaaa 1140
 aaaaaaaaaa aaaaaggggc ggccgntcta gaggatccaa gcttacgtac gcgtgcatgc 1200
 gacgtcatag ctcttctata gtgtcaccta aattcaattc actggccgtg ttttacaacg 1260
 tgtgactggg aaaaccctgg 1280

<210> 1333
 <211> 128
 <212> DNA
 <213> Homo sapiens

<400> 1333
 ttggccaaag aggttaaaacc ccgggggttc cccgggggaa aaattttccc ccccgggggg 60
 gktyccgaa accccccaac cggcccggtt yccccggggg ttcccaagtt taaaaccca 120
 aaatttgg 128

<210> 1334
 <211> 438

834

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (137)
 <223> n equals a,t,g, or c

<400> 1334
 catgcgcaag gagaagcgcg tgtacagccg cttcgagggtc ttctgcaaga aagaggaggc 60
 cagcagccct ggggcagggg aaggcccccgc ggaggagggc accaggggac agcaagggtgg 120
 gcaagttcgt gcccaanatc ctgggcacgt tcaaaagcaa gaartgatct tctggcctgg 180
 caaccargc caggtgcccg catcgctgcc ccggtcatcc agaaccgccg ggaacarara 240
 ccctgctcat gtgcttgagc agcggctgtc agccacggcc gcttggggct tggctgagtg 300
 cgccagacct cggctccact ggaggctcaa catgcagctg ccgtctctgc cccctggcct 360
 caccaacagc tgggctgcac ccctcgccac cagtgccttt ctccccctcag caccttcac 420
 tctgcaccgt cagccttg 438

<210> 1335
 <211> 350
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (346)
 <223> n equals a,t,g, or c

<400> 1335
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 ctggcaagtt aatagactaa gtttcacttt gtgtgtgtgt gtgtgcatgt gtgtgtaagc 120
 actggtggtc tttgttttat tctttgtttc tttgatccct gtgccacctc ccttccccat 180
 tctcccaaaa aagacaagac aaaattaagc acaaatcctc acatttktgt gtgtttatca 240
 katacactta caactgtgcc cattattatg tcaagttaca taccttgcaa aatatgggtt 300
 gtctctata ctgctggctt gcctctcacc ttggaaggca aaaaaanaagg 350

<210> 1336
 <211> 490
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (400)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (417)
 <223> n equals a,t,g, or c

835

<220>
<221> misc feature
<222> (433)
<223> n equals a,t,g, or c

<400> 1336
aagggttttga ctgtgttggg gtggggggtg ggtaaggga tggtcaagac tgagaaagga 60
atgaaatcca ttcaggaaat atcgacaggg ctacacrtga tgtcccaaaa ctgctgctat 120
tgaagaactt cccaaaactt ctttaciaaag ccctaaagga aagtttgcac ctatgaaaag 180
ccaatagggtg agacatccaa ttgctgcatg gaaattgatg tacattcagg ggacggcaaa 240
aatagctgta aaatagtga aaagagcagt ggttgtgctc ttttctggcc aatgrtttac 300
aaaaggaatc tacttggact tctgtcccg gggtkgaaat ccttaggggt tkggaacttg 360
tgggggaaca tttcccaact tggctaaggc aggggttccn ctgggggagg ggaaggntct 420
attctggggg aanttcaccc ccccggcggc accacacttt tcccccgagg gttccccaag 480
ggccccgcag 490

<210> 1337
<211> 748
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (676)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (734)
<223> n equals a,t,g, or c

<400> 1337
atagaattct gatgattatg accttctgat aatgaacact ttttccttta gaggatatta 60
aaaatttctg tatttttgaa atcagtacta attgtcattt ttttctctca cagcttcata 120
ttctccaatt cagcctcatt ctctaataaa acatcagcag attcctcttc attcaccacc 180
ttccaaagtt tcccatcatc agctgatatt acaacagcag caacagcaaa ttcagccaat 240
cacacttcag aattcaactc aagaccacc cccatcccag cactgtatac cactccagaa 300
ccatggcctt cctccagctc ccagtaatgc ccagtcacag cattgttcac cgattcagag 360
tcatccctct cctttaacag tgtctcctaa tcagtcacag tcagcacagc agtctgtagt 420
gggtgtctct ccaccacctc attcaccaag tcagtcctct actataatta ttcattccaca 480
agcacttatt cagccacacc ctcttgtgtc atcagctctc cagccagggc caaatttgca 540
gcagtccact gctaatacagg tgcaagctac agcacagttg aatcttccat cccatcttcc 600
acttccagct tcccctgttg tacacattgg cccagttcag cagtctgcct tggatatccc 660
aggccagcag attgtntctc catcacacca gcaatattca tccctgcagt cctctccaat 720
cccaattgca agtnctccac agatgtcg 748

<210> 1338
<211> 112
<212> DNA
<213> Homo sapiens

836

<220>
<221> misc feature
<222> (110)
<223> n equals a,t,g, or c

<400> 1338
cctaggcctc ctattttattc tagccacctc tagcctagcc gtttactcar tcctctgac 60
agggtgagca tcaaactcaa actacgcctc gatcggcgca ctgcgagcan ta 112

<210> 1339
<211> 622
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (556)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (565)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (573)
<223> n equals a,t,g, or c

<400> 1339
ncgtcgagga gcctatgaat gcgatatcag cgttatcaga aagscgaaaa aaacttaagt 60
tgaaccatyc taagtcgggg actgtctrtc cacccttgcc gacttgacct ctttttcccg 120
gttctctaga gtcagtatac caccagcccg ttctccaccc cgcaaggcgt gctttggaag 180
cctgactcta atcgcgtcct cccctgccta aaaccctgct gtgatttccc attaccetta 240
gtacagagcc acattcctta acgtgtccga cgtgggtccgg ccttcccaca cgtctgcagt 300
ttcgttttcc gccagccttg gsccttgcttt ctgctcttcg gttcctcaca ccatgattcc 360
tctaggccar gcgtttgcat gcgctgtctc scctgtaaaa ctaacttccc ttcccttggtg 420
ggctcagatc ccggctcagg tagcaggtgt gaggtcaagc agaggagggtg aatcttcttg 480
gagagcaggt agcatagtaa gaagaaaggg ccatggctcag aaccctggag aacaccggta 540
attaagaggg aggganggag ggaangggat tanggaagga acagttgata ggaggagaag 600
cagagtgccta tcaacgaaac ct 622

<210> 1340
<211> 624
<212> DNA
<213> Homo sapiens

837

<220>
 <221> misc feature
 <222> (81)
 <223> n equals a,t,g, or c

<400> 1340
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 atgaatgacg ccgtaaggga naaagagatc ttcccaatca gcaatcaccg taaaagcctg 120
 ctgtgttccc gttaaaatta ggaaattctc actagatgaa ttgacatggg aggcatttag 180
 atttctaata gtcacatagt aattctgcgg aggaattgag tcactcttga tagccatgga 240
 attaagcgat gtttaattaaa gtgcaaaaaga taacctttct gttcttacta gaatagagta 300
 ataaaaagaa cctagggtttt cttttgtttg ctggaagaaa aatcaaaatt ctttagttct 360
 gtcaaacagc aactcttgaa agcactttga acaatgcctg gaaaataaca ggtactctgt 420
 aaatgtttac cttctctgca agtgccctgc acgtgcccga agaaaagaca cattaataag 480
 ttaagtgaca ccagtcctga ttttatatat tttatatacc taacaacgta tatgttagta 540
 tgtagaaatt atatccttga cctttttccc tacctattac gaactgtact tttattaaaa 600
 gctgccactt aaaaataata aata 624

<210> 1341
 <211> 962
 <212> DNA
 <213> Homo sapiens

<400> 1341
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 gacaagtgag aaacaataat gtaggagtca gcaaagcaga attcagagac ttcagccaat 120
 cactgctgct ctgagaggat ccagtttagag actcagtatc agcggtcaga acttatctca 180
 ctctgtgaa ctttcaggct ggacttaaaag ctgccaaagt tcccctgcag gaaggaaaca 240
 ctgcytcctt tcagcaggta gctcattrga aagccaamca ggcaaacgat cctggcctct 300
 cccgccagct gaccgctctt cagcatccat gcggtttgta gtcgtgactt tctcagtcac 360
 gatcaagggt gatTTTTTct taaatatcaa gctgttcttt gaacagggaa tgaacatgag 420
 tttttgtaac gtgactgaag ttgagtttaa gtaggaagcg caggaagtcc ccaagtgcc 480
 ggtgtgtgta gctcagagtt cctttttacag tgaggtgtct ctactgggg gagcttccak 540
 gatcctgagc agactggaca caatcatctc tcccttcctc tatgtcaagc actgttacaa 600
 aagactgtga gcaaatTTcc atctaaatat taataattct gaagaagagg caaaactgtt 660
 gaatgcaagc gatacctatt gttgaagaaa cccacaaaatt tctgattcta agatcagggg 720
 atacaacaaa atctacaagt catttcaa atgcacacagg aatcaaaact tggtaaatca 780
 tttctgaggc acaattaaat atattgtagc actatgttaa ttaattatat taaatgtcga 840
 ttcactctga atgtattctc aattgcctac caaaaattgg tatgattatc atttctgggt 900
 ctactgattt ttcacatgag caacagaaat tgtcattaaa tagaattaag atacaaaaaa 960
 aa 962

<210> 1342
 <211> 262
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (234)

838

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (236)

<223> n equals a,t,g, or c

<400> 1342

```

agcgttggtta gtgcatgaag acaagctgcc agagggtttt ggttgatatgt tacacagtgt 60
gactagttcc tatctaaaaa ttagtgtact gtatttagct ctttatttaa aagtgaacac 120
taatttaact tatcttaaaa tattttaata gttcagacta ataatcatgg attttatggg 180
gattttgaaa gctttgtgtc aagaccatat ttttaacaat atcagaagct ttnnantaag 240
gtgcttggtg ctgagctaata ga 262

```

<210> 1343

<211> 833

<212> DNA

<213> Homo sapiens

<400> 1343

```

cggacctggg gcgcctttgt ctaacagatc tcggtttcct aaaaaactaa accgcctggg 60
gctgtcgtcc cagagcccgg cagttaggac catgcgggaa gtgtcctggg gcatatagtc 120
atactgatga ggtgaaagat acacctcgga accaaggggc accctctact ttttaaggaca 180
atggcgccgg gaccaagaaa ctacacttcc cagaaaaaccg tgcggccgtg gcaaaactctt 240
ctgggtctag cgtgcgtcct cactaatgtt tatctcccgg gacgtgggca gaccttgtag 300
caggcgagct ctgcgccttg ctagcaaaaag agctcctctc tccccaaacc ctgctactac 360
gctgtccacc ctgtatggtc tttgaggtct ttgaggtttt tttggaattc acttgctgga 420
gactacagct cacagaacgc cctgggcttg attgtgccag ctgtagtctg cgaaccaagg 480
acatttcctg gaaatgcatg cggccacgta tctgtgacag aaatggcagt tctcacgtgc 540
gttacgcccc ctggaaggac ttggaaatac ggaacttgag tgagcactga gaggacacag 600
accctcatcc tgggaggagt cactcctccc gcagccatca gagcctgaca accgcttctc 660
accagaggcg cttcttagac cctgaccttg cccggctcac ccaaaggggc aatggccttc 720
tttgtatgca agccagacag tctactgttg tatatttgaa ttttttactt tatttttaaa 780
attttaatta aattttaatt taatgctgaa aaaaaaaaaa aaaaaaaaaa ggg 833

```

<210> 1344

<211> 446

<212> DNA

<213> Homo sapiens

<400> 1344

```

tgagagtctg acatgcatat cataatttta tgtcagggtat tatagatatt ttgaaatggt 60
gactgactct tttgaaattt taagttcttt agaattgtgac gcttttaata tagcctctgg 120
ttttagatgg agaaacacta tgctattgtc attaaaaatt aattctattt ccccaattgt 180
ctaataatag tcttaaaaaga tctttcataat tgtgaaacat cagaggggtac aacctttgtt 240
cttcagttta ggtattaaag agcacacaga atactgtgtg attaaacatg taaggccaga 300
taatgcattt gcaaagggtc ctttatttta ggtttaagcc tgcataattg tgggtctaat 360
ctcaggatag caagaaaagag aattgtacat gaaagtattt acacaaaagt cccaaagccc 420
tgtggattat gcattagttt agataa 446

```

<210> 1345

839

<211> 366
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (299)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (345)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (361)
 <223> n equals a,t,g, or c

<400> 1345
 aattcggcac gagcagacct ggattgactg aggtgaaggg gctccttgca gcaatcacac 60
 agaaggctcg ggtcttaaga ttggccctgc tcctagtcaa gctgtatgaa ccagggtagt 120
 cactccggct ttcagggcct tgatttcctt gtctgtaaaa gggactttac gatgcattctg 180
 gcaacctcac ctctctcact gggcaatktg aagaccaaatt gccggcaatg aaattcccag 240
 cattaggttt gtcatatagt agtcctctct aagcatttgt tgaataactca cagggacant 300
 taggccagtc agcattattg aaataacagg tgggggtttt ttantttgtt ttgttctttt 360
 ncgaat 366

<210> 1346
 <211> 426
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (340)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (425)
 <223> n equals a,t,g, or c

<400> 1346
 ggcaagggaa cccaagctg cagaagctga aaggcgggtga ggaggggcct gttctgatgg 60
 cagaggccgt gaagaaggtc aatcgtggca atggcaagac ttcttctcgg attctcctcc 120
 tgaccaaggg ccatgtgatt ctyacagaca ccaagaagtc ccaggccaaa attgtcattg 180
 ggctasacaa tgtggctggg gtgtcagtca ccagcctcaa ggatgggctc tttagcttgc 240
 atctgagtga katgtcatcg gtgggtccca agggggactt cctgctgggtc aagcgagcat 300
 gtgattgaac tgctgaccaa aatgtaccgg ggctgtgctn gatgccacgc agakgcagct 360
 tacagtcacc gtgactgaga arttctcart gaggttcaag agaacagtggt tggtttgtca 420

840

aaggnc

426

<210> 1347

<211> 567

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (34)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (542)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (556)

<223> n equals a,t,g, or c

<400> 1347

```

gggcatcact ggtctcgcgt gcgcgtgacc aggncccggt ttccggtgcc aggacctttc 60
cgaagcgctcg agtggcctaa cggtcacagc tgtcgcccat cggagaggca ggactactgc 120
gagcagtttt accgcgacct ccggagccgg cgtgacaggc tctgtcayta aaataggtct 180
gtccagtcgt actttttcct caccttgaac tttccgtcac gggaatacac gatttggett 240
aggggcccggg gctctcctga ggagagaggg tttgctttgc ggggaagagc gagtcttgac 300
ttcgcagcct ccaatttcag ccgcggtgtg gaggggggtg ctttgggtgg tccccacagc 360
ctttccggag tgcccgcgcg tgtragcttt tgagatttga caatttgtga rgtgcttggt 420
gctgactttc ggggacgaca ggatcctttt acagtcattc tcctgtcagg graggcargt 480
ggggagcgag gaagatcaga wtcgtaacag acttgagtta aagaattgac aaactccccga 540
gntgatttcc tgtcanacct tttgcggg 567

```

<210> 1348

<211> 582

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (252)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (571)

<223> n equals a,t,g, or c

<400> 1348

```

ccacctggag ctgcttctcg agttggcaca ctatcgtgta cacagcagtc ttcagcccc 60

```

841

```

tgggaaggagg ccatagtcgt gtgaggatgg caaagtcgaa caggaagctt tgagtgcctt 120
cctccacgat gtcaacgagg agatccagtg ccagatcgag gtggatggaa caccagggg 180
taggggtgca ggtgtgggca gtgatgtccc ttccccctccc tccccctggc ccacagactg 240
tggccatgag gntgcaggct ggtgctatga cagcagattg cagcacaggg cctccccctc 300
cagccccccag tgggacatca aaaccaccct ggggccattt gtgcaggggca ccacctccag 360
tattgatggg gaaaataaac tcagtagagc cagcacaggg tggagagaag cagggaccat 420
tgtcttcttc aggagcgtga cagctgacct cacagaccat gcttgctggt acacactggt 480
cccagaccca gcctgtcgga catcagcagt gtgctaaaaa cgtgtaagat gtcatastta 540
ccgtgtgtct atctagttga catgggtgga ntcagtaagg gg 582

```

<210> 1349

<211> 279

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (270)

<223> n equals a,t,g, or c

<400> 1349

```

ggatacgaat tccctgattt tctaattgct ccagcaacac ctggttggtta tttccacgaa 60
atgcctgtcc ctgccagtca atatctacat ttgcgtccgg ttgttgctg atgttgccgg 120
tatcatcagc ggcagctgcg ccgtaaattt ttgccggacc gttgccagaa tttccacctc 180
atcgccaacg cgaatcacgc cgctattacg ggcaattaaa ttctgaccaa aatcgacatc 240
gccgttatcc tgggcaatgc ggaaaagatn gcatgtttt 279

```

<210> 1350

<211> 527

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (483)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (522)

<223> n equals a,t,g, or c

<400> 1350

```

cagngagctg aattctgaag cctgagctac tgagaatgct gataaaagat gttataagga 60
ctgtgttgga acctgctgtg accacccccg ttcataatgt tataacatag caattcagaa 120
tagtaacgta tgccccctcat gaaaagccaa gcagtgcaaa aatccactcc aaaaagccag 180

```

842

```

actccctccc agcactgagc cccagcttct gtgttccctt ctccaaaggc agtgggttgtt 240
attagttact tgcataatcct gttggatatg tgttttctat cagggataaa ctatacagat 300
atgcayttac aaacatatca tattatttat ccttgacaga aaacacaagt gaagtttagc 360
cgacgatata cattgtccta caccttgat tttagatcta acattgcctt ctagagggtca 420
acagtacaca tgaaartgcc tacgtctttt cattagctgg acagcatgct gttacatgta 480
tangttaata tccgaacctc agtctaacca tacctactgg gnccttta 527

```

<210> 1351

<211> 636

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (247)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (614)

<223> n equals a,t,g, or c

<400> 1351

```

aaaactggag ctccaccgcg gtggcgggcg ctctagaact agtggatccc ccgggctgca 60
ggaattcggc acgagtaaga agagctgggt gtgagaaatt agagataata cggaatctta 120
ttaatttggg gtcacgatat atagtaattt ttcactaatt tctgacccaa ggaaaataag 180
caattagtag taactaccat gctgtgtttg gctctagagg gcattttaat ataaaaattg 240
ggtaatntta tgtatgttgt acaaataagt ttcattttac aaatgagttt tgccaaatat 300
tttacacact tctagtatcc ataccaaatc tttttaatga gctctaaatt ataaaagtac 360
aaaaagccac tggaattgag aggatgtttg caaagaagga aatcctgtgg tataaatgac 420
ccaaatttat agtattttca ccatactgta actagattga aggatttttc tattgcattt 480
tgtaatttgg ggaaaacctg tttattttct ctgtcagact tctcttaatc ggaaatatatt 540
atagtaaaat gtacacaaaa agtacttttt acattatagg tcatttttaa gttaacagta 600
ttgaaatatt taanatatag gcgaggcatt cactga 636

```

<210> 1352

<211> 554

<212> DNA

<213> Homo sapiens

<400> 1352

```

ccatagtaac tttatttttt ataatagaat tttctatttt tgaccaaaca taaaatatatt 60
ggatatgggc caggcatgat ggctcatgcc tgtattccca gcactttgga aggccaaagc 120
aggagactcg gttgaggcca gtagtttgag accagcctgg acaacatagt aagattcatc 180
tctacaaaaa aaaaaattag ccggatgtga tggcacatgc ctgtaatccc agcactttgg 240
gagtctgagg caggaggatc ccttgagtcc aggagtttga ggcttccatg agctrtaatc 300
acaccactgc accccagcct gcrtgacaga gtgaaacctt gtctctaaaa agtctgaata 360
tgaaaattat attggcagca tactcagaca taaactccaa agttgtctct acactgattt 420
cacatctgca taattttctg catacccgagc aggtgaattt tcagtttttc tgggagacaa 480
ttttgaagag atgggtgaaat agaattgggaa gttaaggagg ggaggtaaaa tgtttttaaat 540
gagaagaaca aaaa 554

```


843

<210> 1353
 <211> 683
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (672)
 <223> n equals a,t,g, or c

```
<400> 1353
atagccaatt ctaaggggatg tactttctgtt attatcaaca aaaaccttgc caacagctgc 60
ggcactggct actctcacct tatatgttta gtccccaaaga tagcttgccc ttttccgaac 120
agcagtcagc tcgactgtgc cactaaaaca gacaaatatt tgctcgggaa tcacaaccac 180
ggggacttgc tccccagtt aggaccatgg tacatatatt tgtgtatatt atgggtgttac 240
atgcagatta atactttcaa ttaatcctcc tagttgcctg taacgttaac atttcaagat 300
gcatttagat atttttatcc tgtaggagga ttttgtttat ttgagggaaa aaaagggctt 360
ttaatgtatt ctctcaaaa accatttaga gaaaacagat aagtaaaaaat aaratttaaa 420
ttaccatatt tctattttaca gggatgagca cattaacatt ttatgtatit agtgatcctt 480
tttcctcatg tgtacacata tgttttttgtg tgtttagtctt gcttgccctc cccatagtct 540
gaaatagktc tatgragttt atattawttt taaacytgat catatmcaaa ttttcagggg 600
aacaaccac tctagctatt tggaggaggg aatgcagggt tatattgggg gagtttttga 660
aactaccatg gnttccttac caa                                     683
```

<210> 1354
 <211> 434
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (399)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (424)
 <223> n equals a,t,g, or c

```
<400> 1354
ttgctgattt ttgactttgc ttgtagctgc tccccgaact cgccgtctts ctgtcrgcgg 60
ccggcactgt agattaacag gaaacttcca agatggaaac tttgtctttc cccagatata 120
atgtagctga gattgtgatt catattcgca ataagatctt aacaggagct gatggtaaaa 180
acctcaccaa gaatgatctt tatccaaatc caaagcctga agtcttgac atgatctaca 240
tgagagcctt acaaatagta tatggaattc gactggaaca tttttacatg atgccagtga 300
actctgaagt catgtatcca catttaattg gaaggsttct taccattcag gcaatttagt 360
tacttcatct gtggagtaaa ggagtggatt ttattgtcnt tcgtcttaca ttcgtattta 420
tatnacataa gttt                                     434
```

<210> 1355

844

<211> 433
 <212> DNA
 <213> Homo sapiens

<400> 1355
 gcgatagtgg gagtgttaaa gaagacagac taacagacac ctgttacttt ggtgtctgca 60
 ttttagtagc tttcttttaa gcagttgtaa actgtgctag ggcagtgtgt ttatctttgt 120
 cttgcacctc atctcttcct tgaccacctt gttatatgta tgaccacctt taagaatttt 180
 aattttgtgt gctgcctccg tcaactgctgt gaacacccac atggagtcag gcaccacccc 240
 accctggcac ctgctagcac cctgctgcac ctaacaagtg tataccctgc tgcattgctg 300
 ctgcttctgg tatgtgtgaa tgargacaat cttgttctgt tcaattacaa atgctttatc 360
 tggcaccacc catcggtgtw tartgamtggt tggkctgara rtaccttagc cccaaccccc 420
 scccacacca gtg 433

<210> 1356
 <211> 632
 <212> DNA
 <213> Homo sapiens

<400> 1356
 tttttttttt tttttttttt ttggataggg tcttctcgtc ttgctgtttt tcctttttat 60
 atwttaacat twctttgttt gtawatcmag ttgtwcwtaa aatatcttcc araaacattt 120
 cttttacttc aaatggtcwt ccctgtatat atatcamtgg acaacttcca aaatatctta 180
 taaagagatt tacatcmaag gcagcactag aaagaattag tttaaagtt ggggtgctttt 240
 gcaacaaatc tcttaacttt gtaagtaaaa aatcactaaa tcgatccctt tcatgcactt 300
 catccacgat aacatgtgtc acagtcgaca acgtactatc tcctgccatc aatgtacgaa 360
 gcaatacccc attagtacaa aatgtcagaa gtgtytttgg agaaaccctg ctttctaatac 420
 ggatctgata accaattgtt tgaccaatcc tttcccgctc ctctgcggca actctttcag 480
 ccacagcgat agctgccaat cgtcttggtt gagtacaaaa tatacggcag gggataccat 540
 ttttaaagca atcatctaaa aggaactgag gaatctgtgt ggtctttcca gaccagttt 600
 ctctacaat caaaactact ttattttcct ta 632

<210> 1357
 <211> 968
 <212> DNA
 <213> Homo sapiens

<400> 1357
 ccctggcccc ccccccccca gtacagggaa cgtgctttac catcgtttcc ggcgctggac 60
 ggccgtcact gtttcgggac cccgcaattt ggggtagtgt tgttgcgcac gctgtcctcc 120
 ccaaagcagg aatgaacacc cccttaacgg cgggcaaaaa accgagggga acccggactg 180
 gccaaagaatc ctgagkagtc cgctacattg ccaamgykic cgctgccaka cgaaagcgag 240
 scgtctgcag cgagtgggaag ttcgccgctt gtgtggtgga ccgcctgtgc ctcatggcct 300
 tctcggctct caccatcatc tgcaccatcg gcatcctgat gtcggctccc aacttcgtgg 360
 aggcctgtgc caaagacttt gcgtaaccac gcctggttct gtacatgtgr aaaactcaca 420
 gatgggcaag gcctttggct tggcgagatt tgggggtgct aatccaggac agcattacac 480
 gccacaactc cagtgttccc ttctggctgt cagtcgtgtt gcttacgggt tctttgttac 540
 tttaggtagt agaatctcag cactttgttt catattctca gatgggctga tagatatcct 600
 tggcacatcc gtaccatcgg tcagcagggc cactgagtag tcattttgcc cattagccca 660
 ctgcctggaa agccttcgga gagtcccca tggctcctca ccaccgagac agttggtttt 720
 gcatgtctgc atgaaggtct acctgaaaat tcaacatttg ctttttgctt gtgtacaaac 780

845

```

ccagattgaa gctaaaataa accagactca ctaaatecctt tccaataatt gactggtgga 840
aggaaaaacaa aaaacaaaaa ctaaaaacct cttagctttt ctgcaattca acttttttatt 900
tttatttttta tttctatcaa agacggtaga gagaaacagc ttgatgctgt ttctacatta 960
aaaaaaaaa                                     968

```

```

<210> 1358
<211> 718
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (678)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (692)
<223> n equals a,t,g, or c

```

```

<400> 1358
cacaaaaaaa agtacattgc tgattccatt tcagcatcac tcaattacca ttctctaact 60
gtctctgatt tgtctttacc aaaagccaca tctggcataa ttggcaaaag actttttttt 120
tttccccacc attccaatga acacaaaaat gacattctca acatcaaadc aaatgatcac 180
atttttattc atattttact ccaactgaaa tgaaggatat aactaatttg tccatttttc 240
tttaagcaca tatctgtatt cattttgata acccagcact cttgattgtt cccttactga 300
atgtttgtct cttagtatcc tttgcccatt ctactccttt aaaaaaactg ttgcagtaac 360
caaagagtta tttttgattc cacgtctttg tcaaaactaaa gtcagctctt tgaggcttct 420
ggattttgat attaaatatg tgtttagcag ttcaaatttt atatatgtat attctagctc 480
agatccagaa atctattttc ttcttatcat tctcacttgg attcctcaag caatttaaca 540
tgctctaaat atttcttcca tgttttattta gggtttcaact ctacatacag aatagactaa 600
tttaataatt ttataacaatc cttggccttt acttttatatg atcttctaca tccaatagaa 660
ggttggtcaa gtaaaccnta aaaacctatc gnacactttt taatctctga attttcat 718

```

```

<210> 1359
<211> 1628
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature

```

846

<222> (1600)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1614)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1623)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1625)

<223> n equals a,t,g, or c

<400> 1359

```

ccnggaatnc cgggtcgacc cacgcgtccg gcgcgctgcc agcagccagg agccaggagc 60
caagagcaga gcgccagcat gaacttgggg gtcagcatgc tgaggatcct cttcctcctg 120
gatgtaggag gagctcaagt gctggcaaca ggcaagaccc ctggggctga aattgatttc 180
aagtacgccc tcatcgggac tgctgtgggt gtgccatat ctgctggctt cctggccctg 240
aagatctgca tgatcaggag gcacttatth gacgacgact cttccgacct gaaaagcaca 300
cctggggggcc tcagtgcacac catcccgccta aagaagagag ccccaaggcg aaaccacaat 360
ttctccaaaa gagatgcaca ggtgattgag ctgtaggatga gcagtgcagt gaagaggggt 420
tctagccccg tggaaaacag cccatgggta acatctcagg atgtyctgca ttcaaaccac 480
caaggctgggt aatgaacttt cacatggact gaatatggga ggcaataat agaaggaata 540
gaatatacag tgccctctgtc ctgaaggaaa atatcatgcc tcttctggaa gaaacggact 600
gcacagagga aggattgagc aatttagcct gcagtggaa aaggtggaca ccaaaagctt 660
caccctgtgt tggagctgtt catgcttcca tgaggccatg gtgtccatgt ccgtggaacc 720
taccacagaa aatggctcat gaaaagggga atccgaccca acacacagct tcctacactg 780
ccatcttattc aacagttagg cactactttg tagaacgatt agcttcaccc tcttagctgc 840
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tgnncgcg                                     1628

```

<210> 1360

<211> 1297

<212> DNA

847

<213> Homo sapiens

<220>

<221> misc feature

<222> (1280)

<223> n equals a,t,g, or c

<400> 1360

```

gccccacgcgt ccgcactccg ctccggtcac catgtgtcac tctcgcagct gccacccgac 60
catgaccatc ctgcaggccc cgaccccggc cccctccacc atcccgggac cccggcgggg 120
ctccggtcct gagatcttca ccttcgaccc tctcccggag cccgcagcgg cccctgccgg 180
gcgccccagc gcctctcgcg ggcaccgaaa gcgcagccgc aggggttctct accctcgagt 240
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gctcaccatc gtcttctgcc agatcctgat ggctgaagag ggtgtgccgg cgccccctgcc 360
tccagaggac gcccctaacg ccgcatecct ggcgcccacc cctgtgtccc cgtcctcga 420
gccctttaat ctgacttcgg agccttcgga ctacgctctg gacctcagca ctttctcca 480
gcaacacccg gccgccttct aactgtgact ccccgccactc cccaaaaaga atccgaaaaa 540
ccacaaagaa acaccaggcg tacctggtgc gcgagagcgt atccccaact gggacttccg 600
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aaacycgggg ggggcccggg acccaaattc ccccaa 1297

```

<210> 1361

<211> 2704

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1438)

<223> n equals a,t,g, or c

<400> 1361

```

gggccatcct ggcggtcaaa tccacgcggc agaagcagca gcacctggtc cagcagcagc 60
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cgcaacccca gcccgaatca caaccccagc ctcagcccca acccaagcct cagccccagc 180
agctccaccc gtatccgcat ccacatccac atccacactc tcacctcac tcgcacccac 240
accctcaccc gcacccgcat ccgcacaaaa taccgcaccc acacccacag ccgcactcgc 300
agccgcacgg gcaccggctt ctccgcagca cctccaactc tgcttgaaag gggcagctcc 360
cgggcaagac aagggttttga ggacttgagg aagtgggacg agcacatttc tattgtcttc 420
acttgatca aaagcaaaac agtctctccg ccccgcacca gatcaagtag tttggacatc 480
accctactga aaacttgcca ttcttcttag ttttctgcat acttttcatc acgatgcagg 540

```

848

```

aaacgatttc gagtcaagaa gactttttatt tatgaacctt tgaaaggatc gtcttgtatg 600
gtgaattttc taggagcgat gatgtactgt aatttttatt taatgtatgt tgatttatga 660
ttatttatta gtttttttta aatgcttggt ctaagacatt tctgaatgta gaccattttc 720
caaaaaggaa actttatttt caaaaacctt atccgtagta attcctaatac ttggagaata 780
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atatatacat atatgagaac atgtgtgtac acatatatga atatgtatat atgtgtatgt 2280
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cattgcttaa aaagatgcgc ctaggctccc tcttggtggc tggatttctt tttcttcscy 2640
cgtggtggcc atggttctta atagggccac cggaatcakg gtttctttct tttttttttt 2700
tttt 2704

```

<210> 1362

<211> 910

<212> DNA

<213> Homo sapiens

<400> 1362

```

gagtgcacct gagcctgtgt cctagggttc cctgatggac caagccttct ccttttgaga 60
ctcctcatcc agtttcttta gttcttcata tatcactgtt tttcagatct ctggctatcc 120
ttgccattga cctcagaaat cctgtatttg accttaacct tcttataccc agtccatacc 180
caaagtgatg gaaatggaat agatttcttt ttaaagtttt aaacgaatat tttgactgaa 240
aaattttggc agtcttgtat gcaaattgaca ctgcagagca ttgttttctc cccccacgg 300
taggarattt tattcaacta aggcacaggc atattaaaaa actttcagta taaggaaaag 360
gggtaagttt awtccctcca aatttgacta cagctcgaaa ttgtctttat taatgcaaag 420

```

849

```

ttcttttgtc accttgactt tgggacactg ttaccaaaacc tcgtgggaaa tatcaagttc 480
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ccatatgaaa atgaccagga agacaattag gtgaagggtt tttaatgatt tgtgctacgt 600
cagtctcttc ccataagaca tattcaaagt ttttaactttt ccttaagagg cttccatggg 660
gagcaagcat ttgataattc atcctttaag aaaaacacca ccgtacactg cttgaagagt 720
tcctcttcta ttacttaaaa cgtttttatt gtgcaacatt taaggcatac aaaaacatat 780
aaagaatacc atgatgaaaa tctatgactg tattaccaag cttaagaaat aaaacagttg 840
agtgatctct catttatgac taaattaact tattaataacc attaaaactt ttggattatt 900
cctgttaaaaa                                     910

```

<210> 1363

<211> 1823

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (63)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (231)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (609)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1729)

<223> n equals a,t,g, or c

<400> 1363

```

ctgcaatgga aacgatgtcg gccaaacana aacaactggg aaaatgggcc cctaactgtg 60
cancaactgt gcgtcacctc ccgcctccca gctccccgca ggamtcccg ctcctacctt 120
tcttcccccc acgactcctc tgctctctcc caaactcctt cccaccacct gcagctcttt 180
gaccaggaca gctccaatgt gttgtcaagt gagtgtcccc agcaggaggc ntggcggggtg 240
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ttcctccagg atccctactc caccaccttc agcagcttct cccgagtgac caacttcttc 360
cggggtgccc tgcagccaca gcctgaggga gccgcctccg accttcccc gccacccgac 420
gatgagcccc agcctggatt cgaggtcatt tcctgtgtgg agctggggcc tcggcaaccg 480
tggagcgggc cctccagtta cagaggagga gtgggcacgc cacgtgggcc ctgaaggctg 540
cctgcagcag gtccttgagc tgaagaaccg gatcttctcg gggggtctga gccccagcct 600

```

850

```

gcggcgcgna ggccctggaag ttccctcctag ggtacctcag ctgggaaggc acagctgagg 660
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aatctgtgag ccctgagcag gaggcgagaa actcacttct gcatggatac cgcagcctca 780
tcgaaaaggga tgtgagccgc actgacagga ccaacaagtt ctacgagggg cccgagaacc 840
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cgttctgcac aggcacttta gcccagacca ggcacacctg cgagggggca ggtgtgctcc 1680
gccgccctgc tgataagctg gcttcattaa actgacactt ctcawgtgna aaaaaaaaaa 1740
aaaaaaaaag gcggccgctc tagaggatcc aagcttacgt acgcgtgcag ggacgtcata 1800
gatcttgtat ggggtattgg aaa 1823

```

<210> 1364

<211> 437

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (332)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (391)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (416)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (428)

<223> n equals a,t,g, or c

<400> 1364

```

aattcccgga caacaatttg aaaaactact cgaagttctg cgtttcagcc ctgaacctga 60
aacataaaat gaatgcaatt gttgttgtaa acttgtttat tgcagcttat aatgggtaca 120
aataaagcaa tagcatcaca aatttcacaa ataaagcatt tttttcactg cattctagtt 180

```


851

```

gtggtttgtc caaactcatc aatgtatctt atcatgtctg gatcgatcct gcattaatga 240
atcggccaac ccccggggag aggcgggtttg cgtattggct ggcgtaatag cgaagaggcc 300
cgcaccgatc gcccttccca acagttgcgc anctggaatg gcgaatggga cgcgccctgt 360
agcggcgcat taaagcgcgg cgggtgtggt nggttacgcg cgggaaccgg taacantggc 420
cagggccnaa ggccccgg                                     437

```

<210> 1365

<211> 523

<212> DNA

<213> Homo sapiens

<400> 1365

```

gggattacag gcgtgagcca ccacgcttgg cctgcccttc taatttttag aagtttgtgt 60
ttctacctct gaagtgttca tgggagagtg aaggtagaga gtggtccaga gcagggtgggc 120
cccagcacac cctgtgtgtc aactgattcy gagaatcatc aaatagacaa gaattttaagt 180
cttcctgttc tgtggtcatg attaagggtgc attytttaaa gacttaaaaa cttactggct 240
ttaggaagga gagttcttat aacctcccag cacaaagtga catactttca ttctctgcta 300
cttctgtgta gtgttgcttc actgttaatg tttgtggctc ttcaagagcc agtcttttagt 360
taatcatatt accataaggc cgtggttctc aatcggagggt gatttcccca gggggacatt 420
tgggcatgtc ctggaggcat tttggttgtc acattggcas cccgggtgtaa wactacctcy 480
gaccaaaaaa aaaaaaaaaa aaaaaaaaaa gggggcgcttc ttg                                     523

```

<210> 1366

<211> 2155

<212> DNA

<213> Homo sapiens

<400> 1366

```

tgatttggtc ttccactcag agttgagtgg tttatcacag agtgtgttat ggcttagacc 60
aatacaggtc ccttcttaaat agtggtagct cctttttatc ctgaggatta agccattaca 120
aactcaaatg accagagaat gtaatttctt aataagaatt ttcccttaaa tctatattca 180
gctctctatt tcagtgtctc tctcctacca gaggtgcaag gagtgcacct agaaccacag 240
atacagccaa gaccacggag agcttttgac gtcaggggtc cactttctcc actgaaccct 300
tggagacaga atatccagct tctggagaga gtgggaaagg ataataaaca aatttctttc 360
aactggtaaa acatcatact tcttcagcaa aagggaattct tctagcagag ctttcattgga 420
tgatatctgt cacacatgcc wkcacctgca gtttggaagg cagtggtgaa tggatccatg 480
caatatgtct agaagacaca aggatgagcc agccacctga tcttgtcatt tataaacttt 540
taagaattac tctggtttac ttttggctctg aaaatggaaa ggcccaaata atgaaataat 600
cttttcagat tggaaatttta catggccatg aaaatatttc tttctattca gaagactgaa 660
atagaggaag cttgagagac tcctttcttt taaaagcggc tctctgtatc tgtttcattt 720
aaaacatttg tgggrttgaa aatcacctta atgaagtagg caaacatttt tttaagtagt 780
agaggaagtc cagaaaactt aatgaaatgg ttttttttgt tgcctgacac tgaaagtaac 840
tagtaataaa aggggtgaact tcttaattat tcgaaaactg cttttaatat taggatatac 900
tcttttagct catcttcgct ggtcttgagg cttattataa ttgtcaaatc aacaaagktt 960
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gkaatacata cctgktaaac ytgaggwatt tttttcatat tgaaggcatt cttaaagttt 1080
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aagtagttat caaaatgttt ctgtttcttt ctttgggtatc tattaactgg tcagtcaaaa 1260
gctattaaag aatgttttta aagtcaccta atgctgccag tttgttaaata ttggtatata 1320
ttttaagaat agacattcta gagttattaa tatggaagca gctaaaatgt tttaggaaat 1380

```

852

```

ctcaaaagtt ttagaagcca catttgctaa agcataacct gcacttagtc tttcttggct 1440
atctgtatatt tttcttcatt aattataaat aaatttttgt taagtatagt attttaaagt 1500
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attacagctt ttactcccgga cttgttttta gtaaagtgtta ataagacaat tggttttacaa 1620
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attaatataa actatttttt tctagaatga ctaattgtgt aatatctgta ttatgtgata 2100
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```

<210> 1367

<211> 1724

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1590)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1650)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1701)

<223> n equals a,t,g, or c

<400> 1367

```

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gctccgctct ccccgctcca agcgcggatc tgggcacccg ccaccagcat ggacgctcgc 120
cgcgtgccgc agaaagatct cagagtaaag aagaacttaa agaaattcag atatgtgaag 180
ttgatttcca tggaaacctc gtcacacctc gatgacagtt gtgacagctt tgcttctgat 240
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aggcactctg gacctctcag ggtggcgatg aagtttccag cgcggagtac caggggagca 360
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aacaagcaa tgcttgcaaa actcatgtct gaattagaaa gcttccctgg ctcggtccgt 540
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agaagccgtc gctccagatc atccgtgacc cttccgcata taattcgccc agtggaagaa 840
attacagagg aggagttgga gaacgtctgc agcaattctc gagagaagat atataaccgt 900
tactgggct ctacttgtca tcaatgccgt cagaagacta ttgatacca aacaaactgc 960

```

853

```

agaaaccag actgctgggg cgttcgaggc cagttctgtg gcccctgcct tcgaaaccgt 1020
tatggtgaag aggtcagggg tgctctgctg gatccgaact ggcattgccc gccttgctga 1080
ggaatctgca actgcagttt ctgccggcag cgagatggac ggtgtgacgac tggggtcctt 1140
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tgaatttctt ttaaattaca gttttatgaa agcatatttt atttacttgg tgttgaaata 1560
gccctyataa aacctaagca cttggaaacn caataatagt attaactaac tagatctatt 1620
gaatttcaga gaagagccta aatagcaaan ttacacaaa aacgagtatg atttagcact 1680
catactagtt gagggtttgg ngccgatagc gactgctaac gaac 1724

```

<210> 1368

<211> 373

<212> DNA

<213> Homo sapiens

<400> 1368

```

cccctacttt aaggagttct agatatgtga gatactacct taccctttca gacagttcca 60
tgtgagtatg ttaaccatac ttcttagtca aaaataaaga gaagcctccg ggtctttgtg 120
ggaacaaagt tacaaattaa ttgaaatcca tactcttctt aagcagcttg gacctactac 180
tgtcccatat gtaagtatgc aaaactacat tttgccaaaga attaactcat gagaaccatt 240
gaacttgtat tgaaagtcac cttaacagtg gtattgtgct ctgtaaaact ggaatctttt 300
cccacaagat gcatgtaaat aagagatctc aaaaatagaa agactctctt tctcaaagaa 360
tacaaacagg tgt 373

```

<210> 1369

<211> 821

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (56)

854

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (725)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (775)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (797)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (798)

<223> n equals a,t,g, or c

<400> 1369

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naagatgttnn ttaaccctca ctaaagggaa caaaagctgg agctccaccg cggtgncggc 60
cgctctagaa ctagtggatc ccccgggctg caggaattcg gcaccacttt gtatgtatag 120
tagccttttg ccctcatcac aacttagtgt gaggtatgtg ttcctgtcct aattctacag 180
agaaggaaat tggaattcag tgagttcatg ttcttacagc tagtgactgg tcgatccasa 240
attagagcac mggtccgtct gactccaaaa cctatatgtg cttttcacta taccacaata 300
acaacgaata tttgttctgt acaattcaca actctttggg ctaccttatt attattatta 360
ttattactac cactacttac atcttcaacta gtcagtargt acagccwaga ttatcacgac 420
ccccatttca ctggtaggga aactgagact cggaagcttg cccaagatca cacagctggg 480
aagtggagga gaaccaggac ttcagacaga cttcctgact ccagatcttt tttttctttc 540
catgacatca cattgctgcc ttaattcatt tgcacaatgc atgattgtat ggccagtgtt 600
cactgacacc tttcctacag aagtatcaat gagcccaggc attacgtaga gccatgtgga 660
gaagaaaata attcatacct ttcagaggag cttccatttt agtggggggt gatacaaagc 720
accnngaaag taaatgcctt gagaatagtt cacaagttaa gaatttaaaa tatanggccg 780
ttgtttccat aatgaanncc cataaatttg ggccataaaa c 821

```

<210> 1370

<211> 423

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (400)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (414)

855

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (421)

<223> n equals a,t,g, or c

<400> 1370

```

caataatgta aaatatgaag tgtatgtgta cacacat tttt atttttcggg atcttgggta 60
tacgtatggg tgaaaaactat actggagtct aaaagtattc taattttataa gaagacattt 120
tggtgatgtt tgaaaaaatag aaatgtgcta gttttgtttt tatatcatgt cttttgtacg 180
ttgtaaatatg agctggccttg gttcagtaaa tgccatcacc atttccattg agaattttaaa 240
actcaccagt gtttaaatatg caggcttcca aaggccttatg aaaaaaatca agacccttaa 300
atctagttaa tttgctgcta acatgaaact ctttggttct tttatttttg ccagataatt 360
agacacacat ctaaagctta gtcttaaatg gcttaagtgn aactattccc taantgctgg 420
ntg                                         423

```

<210> 1371

<211> 653

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (635)

<223> ,n equals a,t,g, or c

<220>

<221> misc feature

<222> (639)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (649)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (651)

<223> n equals a,t,g, or c

<400> 1371

```

cgggtcgacc cagcgcgccg agcaacagcc gtagcaaaag cagctgctgc tctgctatg 60
aggggtgtata tatttttttac ccaaagctct ggaattgtac atttattttt taaaactcaa 120
agaggggaaag agccttgtat catatgtgaa cattgtatca taggtaatgt tgtacagacc 180
ctttttataca gtgatctgtc ttgttcctgc agcaaaaatc ctctatggac ataggagggtg 240
ctgtgtcecca tgccctcttg ccctgacagt gtcccatggg ccccttctg ctccctgccc 300
cctccctgct actgctgatg cactctcctc tccctgcagc ccctggcttc ccagccttcc 360
tcttgacccc ttccaacagc cttggaactc cagctgccac caccctctgg gtcggacact 420
gggacccact ggcccagctc tggctgctgc ttacccctag ccttgatgcc tgcccaggga 480

```

856

```

ccccagccc cctcccgttg ccctgcagct ttaacagagt gaaccatgtg tattgtacag 540
gcgcggttgt cattgcagaa accgctgggt ggagaagaag ccgataaagt ctatgaatca 600
aaaaaaaaaa aaaaaaactc gaggggggggc ccggnaccna attcgccna nag 653

```

<210> 1372

<211> 907

<212> DNA

<213> Homo sapiens

<400> 1372

```

attttttact gctaccacaa tactgctgct gttgctgctg ctacattaat ttatgttget 60
atgtcattcc agtgaaaaat ctcaactttc aattatagtg cagatacact atgtaaaatc 120
acatgttttag gttccaagta atatatggcc taaagaaatc ccaaaaatgg taataatccc 180
agtcatggat gccatacact tctaacctgc agcatcccca ctcaagaact gcctgcctat 240
ggtgcctccc actggagcac ttcctaccca cagcacctga gctgccactg ccagggcacc 300
tacctatggc cccctgccat cctctacaga gctattgttt tatacatctt acacattaga 360
aaacttagac tcaaagttaa tctcatttgc ctgtgtcaga gccaggattg aaacaccagt 420
ctgtatgact ctataaatca cacccttaac tcagtgaact ccgaaggctt ttgagtgtga 480
atgtgccac atatacctgtt ttctaaaaca ggcttattct gactttcaca gatcacagt 540
ttctccagat gtgtgaaagc aagacctgaa ataaactttt atgtgttatg tgctaacatg 600
cttagggctc tattttcata aaacattaac aatttttaaag atgatatcta ataaacagrc 660
cttgataat tatcttttta agattgccaa atgttttcta atatcttact cattgtacta 720
aaccctaggc ttctgttcat ttttaatttta ccataaaggc aaaaacatat atataagtca 780
ataggttaact catttctttc attaaataat caattaaata cgtcatctat gatgtacaag 840
gcattgtata gaacactata ttgccaatca aagtgctagt aaaaataaaa gttttaaagt 900
tgaaggc 907

```

<210> 1373

<211> 3036

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (65)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (547)

<223> n equals a,t,g, or c

<400> 1373

```

tatctccttt cgtttaaggs ccataccnat atttcctacc tggagaatgc ctggactgtt 60
ctcctttgtt agttcttcaa ggagtgcac acgcggccat ctgggcagca tgcatttctt 120
acctcagtgc agccgttccc cctgagctga ggacatctgc tcagggcatc ctgcagggcc 180

```

857

```

ttcacctggg tttgggaaga ggatgtggtg ccatgatcgg aggcgtgtta gtcaattatt 240
ttggggctgc tgcaaccttc cgaggaattg gcatggcctg cttggtgatc ctactgctct 300
ttgccctgat ccagtggctg gcagtgccag atgaggaaga agacaagaca atgttggcag 360
aaagaattcc tgttccctcc agtcccgttc ctatagcaac catcgacttg gtacagcaac 420
agacagaaga tgtcatgcc cgcattgagc ccagacttcc acccaagaaa actaagcacc 480
aggaagaaca ggaagatgtg aacaaaccag cctggggagt cagctcttct ccctgggtga 540
cctttgncta tgcactctac caaattaaag agatgatgca actcacaaga gacaaccgtg 600
cttctgagat acagccttta caggggacca atgagaatag ggaaaattct cctgctggta 660
gagcccagcc tgtcccatgt gagactcact ctgaccatc tagaaaccag ccatccccctg 720
acgcagcagc atctcagacg cagaccagcc ccgctcacc cagtgtggac ccgtgcacag 780
aggagagtga agagcagcag gctcagctgg ccgcgggagg aactgaggg catcctgctc 840
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cgtaatctca ttggaattac aacagggaaa tggagtcca tgaggacttt cagttctttg 1080
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gttacactaa ktaagtggag ggaatgaaag tgtttcgagg tgaatgtgga tataatttcc 1200
ctcttctgat tatttattct tatttgggtc ctaacacaaa ctgggaagag atagaattca 1260
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gtaaccagat aaaagtagca catgtgcttt tgttaaaaaa aaagttaaaa gttaaagtta 1380
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atgtgtatgg catataatgg aaataattct ttgagcaaca gaagctatta ttaactactg 1500
caagctaagc cgagcttaaa aatgcctttt gttttaaatg ggctttgaga aaaaaaacag 1560
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agtttactaa atatatgtat actgtaaata gcctctctcg ctatttacta tcttatagta 1680
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gtggtaaata ggaaaccatg aatgggaagg atggcaataa gtagcaacta tactttccaa 1920
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caatgtaatg tatgcaactg caaacgttac aactgcagcc agaacaatgg ctgggtggat 2040
cgcacgtaaa gcttgccact aaaaatcaaa gcagagggtta acaggaaacc tggggggagt 2100
gtggaaaagg gaaaactgtt ttagctgaat aaagggtgaat tatataattt ataatagctg 2160
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gtaacccctc ttgagatccc tcaacacaca caggggtgtc acagagccca ggctggtaat 3000
cactgcctta atgacttact tctactctt tctccc 3036

```

<210> 1374

<211> 2652

858

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (685)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (708)

<223> n equals a,t,g, or c

<400> 1374

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caactatatt tgctcataga atacttagtt tattaaccag ttgctctctt gataactaca 180
gatgttggtta aattgtatca gataaacttg atagtcaagc agaagttttt atataaagat 240
atgagcacac atttaaatga acgttatatt aatataaagt gagtatgtaa tcatataatt 300
tgtaaacatg ttctaataatc ttaatcatta aagtgttcat gatttttaatt tagactatag 360
aaattattttc ttccagattat ctccagtgtca ctaagctttg tactatacta cgggtgaaggg 420
agcagtagca gtgtcagttc agagaagtta agtacagatg agaaatagtg aaggccacag 480
gaaggacggc aagtatagga tcattttcca ttatggacgt ttccagggaa cagccaggta 540
aaaacaagca atactttaat ctgttttttg tttttttaag gttttaccct tctgtattct 600
cccttttcac taatatattgt tctttctaca gaggttggtg gatggatgta tgggaactaa 660
tgtgcgagga atgcagggat gaagnaagtt ttaattgact cgagttgnct tttagaaaca 720
ctagaaacat atctgcgaaa acacagggtt tgccactgatt gcaaaaataa agtcctycga 780
gcatacaata tccttatttg tgaacttgct gcagcamaga aaagggtctac tgkgctgact 840
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gctttttctat cttgggtgttg atgtttacgc aagagttttg agatgaccgt ggaaaaagta 1140
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gaactcaagc aagaaaagaa acgcaaaaaa cggaagaata gacgaaaaaa taagtgtgtg 1260
tgtgatattc ctactccctt acaaacagca gatgaaaagg aagtaagcca agagaaggaa 1320
acagacttca tagaaaatag cagctgcaaa gcctgtggca gcactgaaga tggtaatact 1380
tgtgtagaag taattgttac caatgaaaat acatcatgta cctgtcctag cagtggcaat 1440
cttttggggt cccctaaaaa aaagaaaggc ttatctccac actgtaatgg tagtgattgt 1500
ggatattcat ctagcatgga agggagtga acaggttctc gggaggggtc ggatgttgcc 1560
tgccactgaag gcatttgtaa tcatgatgaa cacgggtgat actcttgtgt tcatcactgt 1620
gaagacaaaag aggatgatgg tgatagttgt gttgaatggt gggcaaattc tgaagagaac 1680
gacacaaaag gaaaaaataa aaagaagaar aagaaaagca agatactgaa atgtgatgaa 1740
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accatgcaca cagtgtttca ccgtgacaag accaaagata cacatcctga aagctgttgc 1860
agctctgaaa aggggtgggca gccattgcct tggtttgagc ataggaaaaa tgtaccacag 1920
tttgcgagaac ctacagaaac gttgttttgt cccgattccg gaaaagggtg caagagctta 1980
gttgaactcc ttgatgagtc tgaatgtact tcagatgagg aaatctttat ctcacaagat 2040
gaaatacagt catttatggc taataaccag tctttctaca gcaatagaga acaataaccga 2100
cagcatctga aggagaaatt taataaatac tgccgggttaa atgatcacia gagggccatt 2160
tgtagtggct gggttgacaac ggctggagca aattaaata ataaaatagc tctgtctttc 2220

```


859

```

aatgaaacac tcacgatgac tactgcgcct tctcttttcga aaaactctta atttagtgac 2280
ttatggcaaaa attttatctt aaatcaatgt gattctttct tgttttggga gacggtggag 2340
gtatcctcat tagttctttc ttcaggcttg tgtcttttagt tgcgtggctg cgcaggcctg 2400
ccatatgatt taagccatct cttttcatta aatgtttctc ttctgtgag acttactaaa 2460
gcaacttagt ggcaaaaaagt aatgttgtag ttataattct gtacagaaat gacaatgagc 2520
tgaatatatg gttttacaaa gtagacatcc acttgcaaaa tgtttggatg taatgttaaa 2580
gcgcaatgtg caaaaatttaa aataaagaat atttattaat acgcacagta aaaaaaaaaa 2640
aaaaaaaaaa aa 2652

```

<210> 1375

<211> 327

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (292)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (309)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (313)

<223> n equals a,t,g, or c

<400> 1375

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gcaactctgt gggatggaca tgcagccgtt tggcatgggt atgaagttca tggaatggaa 60
aaaataccag aagatggacc agcacttata attttttatc atggagctat tcctatagat 120
ttttactatt tcatggctaa aatatttata cacaaaggca gaacttgccg agtagtagct 180
gatcactttg tctttaaaat ccagggttta gtttattact ggatgtgttt tgtgctctac 240
atggaccaag agaaaaatgt gttgaaattc tgaggagtgg ccacttgta gntatctcac 300
caggtggant tcnagaagcc ctaatta 327

```

<210> 1376

<211> 1253

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (165)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (210)

<223> n equals a,t,g, or c

860

<220>
<221> misc feature
<222> (631)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (641)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (673)
<223> n equals a,t,g, or c

<400> 1376
ggcacgagta agacgaagca gagtagacac acccaataacc tgaaaaaatgt tcattgggttt 60
tactagagta ttgaggagggt tcctgctgac accccttggg ctggagaggc ctccctctgaa 120
agggagccct gggaaaagggt tgcctctcact cttcactcct ttctnctccc tcagatccac 180
ctgttcctca ggtgcctgct cttccccgtn agggaaagccc aggagaccag gcagctgcgc 240
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ctactgatgg agtgtggcct ctctctcatc ccatctgtag accttgccctg gaattttttt 360
caatagcaga ctccagtttg ggaattgatc ctcttcggag acctggactt cacataaacc 420
aacttcccat ctccccagtg ccatgagcaa actctgtttt ctctttgtcc atggttgtgt 480
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ccatggtgct acaagtgttc tcattcctca nagcagccag natgtgttat ttcaggagtt 660
tgtgacattc gangatgtgg cttgtgcacc ttactcgaga ggaatgggga tacctggacc 720
ctgttcagag ggacctctac agagaagtga tgtagagaa ttatgggaac gtggtctcac 780
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tctccaagag atggcccaag tatcggcttc ccatcgatat tgctcgtccc tgctcggaaa 960
ctccttttcc acgatttgtga gatattaaaa ttgactgatg gaatagaagc tccccaggat 1020
gccaccactg tgtaaaatcg cagctcctca aattacctct gtttaatttc aaatgttagg 1080
gtccaaggaa gccctctgtt gcaaccagat atgttttgaa cccagttcat tcagaaacca 1140
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caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 1253

<210> 1377
<211> 671
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (287)
<223> n equals a,t,g, or c

<220>
<221> misc feature

861

<222> (645)

<223> n equals a,t,g, or c

<400> 1377

```

cccacgcgtc cgagaaaggg agaagagtct tgtgggggct gggtaaggga ctccataaaac 60
aagagtgggc agggacttca cctcttccccg taatggaagc tctgttaaata ttttaattta 120
ggagagtttt tgtgaaaatg actattttgt ttagctcaca tgataacatt tctataataa 180
atcatactca gcgtgcttat gcgcgaagag actgaactga agacgctgca gactcagata 240
gcaaaaataat aagcctactt catgataagg taactattag tcattcnaac tcctatttcc 300
cttaaatata tcttaaatca gttaaggggt ttaatgtttt ttttaaatta atagtaatgt 360
tatgtttgaa aaactgggtt gaaataaaact ttaaaacctt tagaagttta accacttaag 420
acttttccag tctgcctcgt tatagcaaaa ccaaggaaaa tttcttttct aagctcctat 480
agagaactgg caatgaaact aaaatttaat tgtgtctcca ggtctcttat ttttctgcaa 540
ataataaatt atgtactatg atcattttca gataaatcat catgcatgtt ccaaaatgat 600
tggccaaggt ttattttttaa gaaacattaa tcgtgagtgg maganacatg ctatgggcct 660
tttggggagac a 671

```

<210> 1378

<211> 501

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (397)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (494)

<223> n equals a,t,g, or c

<400> 1378

```

gttgacattt tcttcacttg aacaaagatg gcagaatccc atttcacatg ttggcaggca 60
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catgagggtc ttcctgggct cccagataaa tgtcatgata aatttggagt tgtagctaaa 180
gggcagccta atagatttct aatatataat aaatagtagc actagggtcaa aatactgctt 240
aggaatcact ttataactcca ggtggcttcc tccattgtcc cctcgccgcc tctgcathtt 300
gatctgaaag ctcgatttca agattacaaa tgagagaaac ctgattctct tctgtgacag 360
gagccaggta ctgcaatggg ttgcaatcca aaacctnata attgtcaagc ctgagttcaa 420
gagactttta ctgggatata ggctggatga ctgaaaccta acaggctgga aaggtaatag 480
ttttggggaa tgcncatgac a 501

```

<210> 1379

<211> 962

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (795)

862

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (892)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (922)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (928)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (939)

<223> n equals a,t,g, or c

<400> 1379

```

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ctacaaggag ttttacacaa aacttttgct taatgctttt ttttgtgtgg agaggacca 180
taatccttat aatactctca aagatggctc aggatcccc aaaatgctaa aaatcacggc 240
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atacctctgc ctgctgtgta tcttagtgat ggcaagatca aggttatcaa caacaggcag 360
acaccccgca gtagtttctc tcttagagtt gaatgtctgg cttagtataa ttctgtccat 420
tgaaagcctt tctttaaaak gtttgctaca aatgaatgca cagcatgaga tatttaaaat 480
agtatcatat actttaggat caaacaagca aaaaatactc tgatatagta tgtgctacat 540
aagcgthttt gttacgtgct aggcctctca aaatggatth gtagaaaatg acacagaatc 600
acagttcatg ccctagthta cgggtgctct tttgacccgt gthttggaag agtgatagtt 660
atcctactgt aaatagctth cctattacaa atagtagtta acatgctctg tataaaatth 720
ctggtthttc acaaatatct atgaccacaa atcgagaaac gtaatgagtt gtgaccaata 780
gttaatatat tttcnaaatt taaatgtact accggccaca aataactgcg ttttgggatt 840
attaaactat ccacagtaat ttaaagtgga atcatcctct tcatttatag cnaaattctc 900
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cg
962

```

<210> 1380

<211> 2935

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

863

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c

<400> 1380
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aatgcaggac tggtagctta aggagctgcg aagtctgatt taccggccta ctctcgacct 180
gccccccacc cccagctcag gggacctttt gtctgaacgc cagagctact gaccaggctcg 240
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gaaggctcag ttgtcggaaa gacaaaagcg atttcttccc actcctgcag ggccagaagt 360
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tgggacggtt cagcgggcac ggagcgtgt gctggcctgg ctggggatgg ccgcggagggt 660
gcccttttcc tgggtgctttg tgggtggctgc agaagaccag ttttgttgag aactgctttt 720
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gcttgagata aaagaaaagt tgacgtcatg gtcactggta ctcaggcact tcacagttaa 1560
cttgaaagag gctttggaaa atagataaag tgaaagaaga ataaatacat atttttaata 1620
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taccctgaaa cacagtatca aaagggaac ttaaaacata ctgtttgatt tttttatttc 1740
ctcttacaat ccatgttttc aggtagaatt atgactttcc cccattgtt acacatttct 1800
ttacaaagga ggcctgtaga aattggacac gatcatgctt gagcatgtga gttagtcaaa 1860
ttatgagtcc ctgcctattg tccattacac accgaatgtt aatttaagaa ccagaggcag 1920
aagtctggc ttccctgctt aaacccaatt cttatatgaa atttttttaa agcagaaacc 1980
tagcagccca tctgcttttt ctcttttgtc ggtgtatttg gtacccctcc aatgctggtc 2040
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caatttctta agcactttga cattttggta gttccacact attgagagaa taatatattt 2280
attttgtgac attgcagatg ccaaatactg taaccttctc rtgataacaa tacttaggtt 2340
caagatcact gttcaaacc tgtcatgctt taaaactgat gcgagatgat tttgtttttt 2400

864

```

gcataatcaa tacttaaggg tgcaatcaac tgttagtaat tgtgcagtaa agtaaagccc 2460
tgtggtgtat caactactag ttaagagtct cagttgattt ctgtaatgtt tgacctata 2520
atagcccggt tcgtctctga cccaacagag gaagcacaga tcaaatacacc ttggagtggg 2580
caccaggggg acagggagcc cccaccaat gtatcaatgg gtgatttatg atgccttctg 2640
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aaatgttttc taatagacac agggaggcca gttctgtttc agagcaatta tcttcccaaa 2760
ttctctgttc tgggtgttga actgtgtgcc ctggtttctg ttttcttttc tactgctgta 2820
attctctgtc tcatcatcct tctcttttgt ttccatagcc ttttataatg catatatgat 2880
gctgtgaaca gaaataaatt atttatacaa tcaaaaaaaaa aaaaaaaaaa ctcga 2935

```

<210> 1381

<211> 626

<212> DNA

<213> Homo sapiens

<400> 1381

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gtggacgcct gtaatcccag gtactcggga ggctgaggca ggagaatcgc ttgaacctgg 60
gaggcagagg ttgcagttag ctgagatcat gccattgcac tccagccctg ggcgacagag 120
ggagactttg tctcaataag taaatacata aataaataga ttaattaaaa taaaaggat 180
ctccagggct gcattgcttc tggaagctct agggcaagct tttccagcct gcggcatacg 240
gccaggactg ctttgaatgt ggcccgacac aaattttgtaa actcttaaaa cattatatat 300
ttttctttta gttcatctgc tgtcgttagt gttattgtat tttatgtgtg gcccaagaca 360
gtcgtcttct tccagtgtgg ctcaggggag caaaagatcg gaagccctg ctctagggga 420
gtgagttcat tttattgcca tttccagcct ccaaaggctc tctgcattcc ttagctcgtg 480
gccccatccg tctgtcttca aacctaccag tgtagcatct tccaagcagt cctcaccac 540
taccctgtcw ccccgccct ctcactcccc ttctgtggcc acgatgcctc agggaaagat 600
ggcatttttag gcagcaggta agaacg 626

```

<210> 1382

<211> 583

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (571)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (580)

<223> n equals a,t,g, or c

<400> 1382

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ctgttttagt tatagtctat tgatactttt tatatacaat tttataaata taaatattat 60
aattttatat taatggtacc aaaaatacat ttcttaagggt taaaagcatg cacttccatg 120
catacttgct tttggggaga gtggggagaa gacattctaa taatcagttt gtgaaatagc 180
ttctgttggg aaccttttga ggggaataag gaatggtcat ctaaaatgag agattctgga 240
ttttaatgca gttcaaagtt gagctgtatt tttgttgttg atttatctgg atttttttta 300
aagccttcta aaaccagtg aattcaatac cttaattagt acatactatc ttatgtaatg 360
cataaagcaa tgccagtcac tgagaacatt taaatatatt tatattcctg gagatacaca 420

```

865

```

ttctcatttt  tgttggttta  ttataaatta  ttcttctaga  tgcattcttt  ataactagga  480
tttcatttttg  tgtgtatagc  ttatgtaata  aatttttaaag  gtgaaaactc  tcttaaaaaa  540
aaaaaaaaaa  aaaggggggg  ccgccccaa  nggccaagn  tta  583

```

<210> 1383

<211> 517

<212> DNA

<213> Homo sapiens

<400> 1383

```

acatatggaa  ctcatcattc  attttaaagt  atggtggcca  ttggcgggtga  caaaaggaaa  60
agaagcaaag  agactcagtc  cataatgctg  attagttaga  agaaagggtc  aggattgaga  120
aagtaccagg  aacttttaat  tatttaaaag  agaatgctga  ctgttaatgt  tttaaattct  180
actgttcaaa  tgtastaata  tgaattttta  ccctttgtgc  atgaatatts  taaacwacta  240
gaagacctcc  acaatttagc  agttatgaaa  gttaaactkt  ttattataaa  aattctaaac  300
cttactgctc  ctttaccagg  aacatgacac  actatttagc  atcagttgca  tacctcgcca  360
atagtataat  tcaactgtct  tgcccgaaca  atcatctcca  tctggaagac  gtagccttta  420
gaaacacatt  tttctattaa  tttctctaga  acttcttttc  ggtataatct  gtaagaaatt  480
aaaaatatat  atcaacttct  ggataaataa  aaaaaaa  517

```

<210> 1384

<211> 1230

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1145)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1213)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1216)

<223> n equals a,t,g, or c

<400> 1384

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gcggccgcgg  ctccccgagct  cctcgggctc  tgggtcccgg  cgccccctccg  gccgcgagtc  60
ccacgcgcca  cccccgggcg  ccctcgacgg  tggatctagc  ggcggcgagg  aggcgggtcc  120
cgcccccggc  gaacccccagt  cccggcccc  ggccccgggc  ccagcttcgg  catggatgtg  180
aggttctacc  ccgcggcggc  cggggaccct  gccagcctgg  acttcgcgca  gtgcctgggg  240
tactacggct  acagcaagtt  tggaaataat  aataactata  tgaatatggc  tgaggcgaac  300
aatgcgttct  tcgctgccag  tgagcagaca  ttccacacac  caagccttgg  ggacgaggaa  360
ttcgaaattc  caccaatcac  gcctcctcca  gagtcagacc  ctgccctagg  catgccggat  420
gtactgctac  cctttcaagc  cctcagcgat  ccattgcctt  cccaggggaag  tgaattcaca  480
ccccagtttc  cccctcaaa  cctggacctc  ccttccatta  caatctcaag  aaatctcgtg  540
gaacaagatg  gcgtgcttca  tagcagtggg  ttgcatatgg  atcagagcca  cacacaagtg  600

```

866

```

tcccagtagc ggcaggatcc ctccctgata atgcgggtcca tegtccacat gaccgatgtg 660
cgcggttctgg ggtcatgcct cctgcccagc tcaccaccat caaccagtct cagctcagcg 720
cccagttggg gttgaatttg ggaggtgccg gtatgcctca cacatctcct tcacctccag 780
caagcaaata agccactccc tccccttcca gctccatcaa tgaagaggat gctgatgaag 840
ccaacagagc cattggagag aaaagagctg ctccagactc tggcaagaag cccaagactc 900
caaagamaaa gnaamagaaa gatcccaatg agccacagaa gccagtgtca gcatatgccc 960
tggtttttcag agacacacag gctgcaatta aagggtcaaaa cccaatgca acctttggag 1020
aggtctcama aattgtagca tctatgtggg acagccttgg agaagaaca aagcagggtat 1080
ataaaaggaa aacagaagct gccaaaaaag aatacctgaa ggccctggcg gcatacaggg 1140
ccagnctcgt ttctaaggct gctgctgagt cagcagaagc ccagaccatc cgttctgttc 1200
agcagaccct ggngtngacc aatctaatac 1230

```

<210> 1385

<211> 382

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (340)

<223> n equals a,t,g, or c

<400> 1385

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aagcaacgaa atattatgat gttctaaatc ctacctaaat attcttactc ttaaagctat 60
ggtcataaaa cccactggct ttcttcaaaa ggtagattac attattagaa agttgtaaag 120
atatattatc accaaactaa aactttgctt ttgctttatt cagaggaatt taaagataat 180
agacaagaaa tttctattta gggctatgtc cctgtaccac actttaggga atgaaacact 240
gtcatatgtc ctgtcagata actgagttaa acattttact ttgcagttaa caaaacagct 300
agagcctagg tataatgctg tggtagtgtt cttagttttt gctttttccg ttctctcata 360
ataagtgatc ctgagtatgt ct 382

```

<210> 1386

<211> 1202

<212> DNA

<213> Homo sapiens

<400> 1386

```

gagaactagt ctcgagtttt tttttttttt ttttttttgc tttacattac ttggtatgta 60
aataccttga ttaaaacctt gtaaaccaat ttcaagggtt ctataagttg tatagtacaa 120
gtgtttttta aaaatcttgg ggtgttttta aaaattaaga tatattttgc ccaagaattt 180
ttttaacaag attgctaaaa acatcttatt tagacacttc aatgtaccaa tttataattg 240
gatattcagt ttaaatagta cacagagttg tggcttttat tttcaattaa tttttttcct 300
tgtggggcagt gtgcatggta taataagcct gagcagaggc ttaagttgta tgtgtgcaga 360
gtttgtaaag gaatcaattg gaagatgcag aagaccgagg tttgctttca aggtattttt 420
caggctgtgt gggtaaaaatt tgcctcaaat ttctatcaaa caggaatgta aaatagataa 480
aatcctatgt atttgaattg tcagagctag ggagtgcaaa tgttttggca atgtattcaa 540
aatgctggcc tgggcaccaa agagaaaaata gcctttttaca gttacatagt aagatgcgat 600
tagtaccac aaattactgt tttctaaaca tttgaagttt tacgattagc tttaaaaataa 660
tgattttata aattgggtgt cacaataatt ttgggtattac tttcctcctt ttccacttta 720
gcaatatagc caaatgtatt caacataaaa attcataggg tctgaaattc atagctgggc 780
caaatttttt atggcacctt agttttacca taatgggtcat ctattacact cttctgttat 840

```


867

```

aaaatatacc cttatttctt ttgtttatag tatctttgag gaatgttttt ggaaaagtta 900
atztatatatt tatagggaga acactcaata aattatgtta actgtgcccc cgagttaaaa 960
atztatatgag tatatgtgaa acttgaacaa ctgaagactt tttttaattg ataaaaatgc 1020
ttagtatgcc tgttttggtc tgccagtaaa ttaagtagct tattgagata actaacagct 1080
aaatatagct gtagtgtttc ctgactgtat attctatgat ttaataaaaat tatccagact 1140
agttatattg ccacagtaaa catgtgactg aagtgtcctt catcttaatc tgaaagaggg 1200
ca 1202

```

<210> 1387

<211> 575

<212> DNA

<213> Homo sapiens

<220>

<221> misc. feature

<222> (555)

<223> n equals a,t,g, or c

<220>

<221> misc. feature

<222> (559)

<223> n equals a,t,g, or c

<220>

<221> misc. feature

<222> (562)

<223> n equals a,t,g, or c

<220>

<221> misc. feature

<222> (571)

<223> n equals a,t,g, or c

<400> 1387

```

gatacctctg tggatgagt atttcaggga aaaagaaagc aggcattggca cccattcgat 60
tttccctgac agcatctgag atccttttgg ggagacgctg aggagtgttt gctgccatgt 120
actcttacag ctctatgctg acactcccat ttgatgtggt ccagaactta gacctcagtc 180
cttggatcag ccctgtggtc cctgcaagca ggggcattctt tctgcatgtg agccagcccc 240
cttcctgttc aagggttctg ctggatctgg gcttttcctg tccttcactt ctgggatgat 300
tcaccccaca tcttcagta ccctgtaaac cattttaaaa tatttagaaa actatcctcc 360
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gataggggtg tatgtggaga gattcatgta agtctcacat gaggtagctg tgccctatg 480
tgtactaatg tgtgtactgg gtcagaaggt gccctgggtt cccacagacc ttggtttctt 540
gcctgggtgg gtggnaagna anggaactta nagaa 575

```

<210> 1388

<211> 1672

<212> DNA

<213> Homo sapiens

<220>

868

<221> misc feature
<222> (311)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1652)
<223> n equals a,t,g, or c

<400> 1388
atataagcaa cacttcttctg gattgtcggc cctcagagga gagtgagctg ctcacagata 60
ctaccaccaa catccttttc ggcaccactt ctactgtcga atcagatata ttgacccaaa 120
cagatagaga ggtggctctg cacgaaagga gtagctctgt ttccactatt gacactgccc 180
ggctgattca agctttttggc catgaaagag tatgcttgtc acccagacga attaaattat 240
atagcagcat caccaaccaa cagaggagat accttgagga agcggrcaaa cacagcaaga 300
aagtgtcga ntacaggtca tcccctagtgt acttctgagc acaccagaag gagacacatc 360
caggtagcaa accatgtgat ttcttctgac tctatttctt cttctgccag tagtttctctg 420
agctcaaaact ctactttttg caacaagcag aatgtacaca tgttaaaciaa gggcatacaa 480
gcaggtaact tggagattgt gaacggtgcc aaaaaacaca ctcgagatgt tgggataact 540
ttcccaactc caagttccag cgaggctaaa ttggaagaga acagtgatgt gacttcttgg 600
tcagaagaaa aacgtgaaga gaaaatgctc ttaccgggtt atcctgagga cagaaagtta 660
aaaaagaaca agaagrattc ccatgaagga gtttccckggt ttgttctctgt ggaaaatgtg 720
gagtctagrt caaagaagga aaacgtgcct aacacttgtg gccctggcat ctctctggtt 780
gaaccaataa ccaagaccag accctggagg gagccactgc gggagcagaa ctgtcagggg 840
cagcacctgg acggtcgggg ctacctggca ggcccaggca gagaggctgg cagagacctt 900
ctgaggccat ttgtgagagc aacctttcag gaatcgcttc artttcacag acctgacttc 960
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caccagaatc gcatgtgccc gctgcccagg agagtcttcc tggctatcca gaagaacaag 1140
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gtacagaaaa agagagaaga agagaagaga aaatcagaat ataagtcata ccggctgcga 1260
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aatccttact tttgtgagtc tggttgaata aagcttattc tttgtccatg tgtatttttag 1440
aaatagtaac ttctaaagag tctggaacaa agtggtgatt aaaattccta atggtttggg 1500
agcaatactt tctgcatagt ggccttgtcc aatggcctgt gtgttacaat gatatgatca 1560
tttctcaaga ataagtcctt ttttgtatgt gtttttatac ttttagaaaa taaaaacttt 1620
agattaaaaa aaaaaaaaaa aaaaaagata tnctcggtcg tcaagggaat tg 1672

<210> 1389
<211> 448
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c

<220>
<221> misc feature

869

<222> (404)

<223> n equals a,t,g, or c

<400> 1389

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ggcccatcct ggggtgaggct ggggctctcc tgggcactgt atgtattctg gatacagggg 60
tactgggctc gctatgtgtg tggarccatc ccttccttgc ccagcccca cctccctctc 120
aaaccctctc tggctctttc tgagcttcct ttctgtctcc ccagcttgcc cagtgtctag 180
tgccccactt ggctcttttg ctacttcggg tcaggtggaa cctcttggga atgtgaartg 240
ccttacagaa agattgcact tcaagargar argctscagg gaaccatcct aaacccaaaa 300
gcctggaact tactgkggtca ctttactttt gttnacaagg gtctccttaa tgccctcgaa 360
aaagatcttg ggctgaact tctatcctga aggccacctc tgtncacccc aactccctca 420
actcttaggt gttatctcaa ttggaaaa 448

```

<210> 1390

<211> 882

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (867)

<223> n equals a,t,g, or c

<400> 1390

```

gcttccttgt aggaaatgac cttcactctg ggtttaactg gaggggcatc acctcccagg 60
gagacagtta cttcctggag gargtggtgt ttctccacc cataggtgcc ctgccccatc 120
ctcatggtgg cagcaaatca gcatgtgctg gggagaccct ggggtagcag ccactgacct 180
cacacctgga ggaagctgtg tgaccgattc atgagcttat gcctgaagac agagcaagca 240
ctccccgcac cagcagcatg acgttcactt gtwttgwgtt ttctgatctc ttcaacgcct 300
tgacctgccg ctctcagacc aagctgatat ttgagatcgg ctttctcagg aaccacatgt 360
tcctctactc cgtcctgggg tccatcctgg ggcagctggc ggtcatttac atccccccgc 420
tgagaggggt cttccagacg gagaacctgg gagcgcttga ttgctgttt ttaactggat 480
tggcctcatc cgtcttcatt ttgtcagagc tcctcaaaact atgtgaaaaa tactgttgca 540
gccccaaagag agtccagatg caccctgaag atgtgtagtg gaccgcactc cgcggcacct 600
tccctaatac tctcgatctg gttgtgactg tggccctgc cgtgtctcct cgtcagggga 660
gacttttagg aggcgcgagc cttccatcac cggatcagtt ttctctctta ggaaagctgc 720
aggaacctcg tgggctccag ggaccagggc ccacatccat ccagcgttcc cgctggctgt 780
gggacagaca gggagggggc tgtacagaaa caccacactg tttattaaat cacaatgatt 840
tttattaaaa aaaaaaaaaa aaaaaanaaa aagggcgggc gc 882

```

<210> 1391

<211> 423

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (254)

<223> n equals a,t,g, or c

<220>

870

<221> misc feature
<222> (375)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (417)
<223> n equals a,t,g, or c

<400> 1391
ccaccccagg gtctggtccc tgacgacgcg cagtgagggc cccgccgcta ccccagcagt 60
cgccctcccaa gttcgcggaa cgcagctgac cggctccctc tggactgggt gacatgactg 120
ctcccaagca gtcgtttgta aactgagttt ctgtaaaaca attttatttt tcatatgtga 180
ctgtagcggg gtatgatttg aactttgttt tccgtccccc agcccggatt ctctgtcttc 240
tcctgtacag ccgntccgtt ttcttacctc gtctccgtea ccgaggccct cagccctgaa 300
cacaaggact gggcagtttc cctattgatt cctgaacctg gaacttaaga catcttccga 360
ggggccccc cttgncacac ctttagctg atcgacttac aaatacctgg gattctntcc 420
ccg 423

<210> 1392
<211> 856
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (369)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (730)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (747)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (811)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (843)
<223> n equals a,t,g, or c

<400> 1392
cccacgcgtc cgcttttttt aatctatggt attgtgagct tgtgcaatgc aagtggctct 60

871

```

tattataata atgaaatagc tactccattt aattcttttac atgtccaatg ccagctttct 120
ctccgtttgc ctgttagccg agaaccctgt gcaactctct cctggatgtc atgggaaata 180
tgacaaagag asaacacttg gtcttggcct caaaggactc gtaatacaga agacccgaga 240
aggatgtacc tgcagggtta tctacagsag aaatttaatm aaatacttgg cacatcgag 300
ttacaaagaa agttttcaac gtggggccatt ggccactgca ggtttctttg tgagaaacat 360
ttgtgtgtnt ttttatccga gggaacaaaa ccctaggaaa ggaagtttca tcatctactc 420
ccatttttcc tccttcttga acaaaacttt tagctcaagg aacactgctt ttgaaggctt 480
gtgtttcatg cagcctgctt ccttagttga tctgttcaca agatcacatc aagtaattty 540
ttccattctg ggaagatggc gaaaacaaac agatactgtc agcagatgtt gatgaaccac 600
ctttccagaa ataaacagtg gcagggaaca gagaaagcct ggagaatccc catcagtcac 660
cagccggaga agaccttttc ctgggctgga gtccctgtctg ggggaacgtc tgttctctgc 720
agcctgaagn agctctgggc caggagncag cactcagcaa gtcctaagac caattacat 780
cctgggtcca ttttgggttt gtaaagtcac ngaatttttc tctccagggc cttagtgtcc 840
gtntgtaaat gtacca 856

```

<210> 1393

<211> 641

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (536)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (576)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (606)

<223> n equals a,t,g, or c

<400> 1393

```

gtagtaattg aattattatc agaagtaaat tgacctcaaa aaaagtaatt gggaaaatta 60
agtttatggc actttgtgta ataaactgtat tgatgatgaa gagaagggtta gtactgtaat 120
ttgttttcta taagtctagt gcatatttgg attgagtatg tttttaaaaa gccattgaaa 180
accacatttt gtttggcttt agttacagtc tttgactgtc ccaactatta actttattaa 240
ctttattcat acacatagaa atacattaca caagcatcaa acataaacat tcagatcact 300
cacttcactt ttctcctggg cctaaaactg tcagtatatt tgcagttttc tgatatgtgt 360
tgtctgcatt cagaggactg tcaagagtca tagataggca tctgaatgaa gcttttgagct 420
tcttaaaatg caagggtggg gaaacacagg ataccaggaa gagaaaggat attgttcata 480
tagttgtggc agtggccttg agaactgtct tggctagaga tagattagga atctgnatta 540
atcctggaca ttgggggttc tttagtggat cccttnagct ttccctgtcc ggctctaccc 600
attagntatc cagcaattta tggggccagtt aggaacctcc a 641

```

<210> 1394

<211> 712

<212> DNA

872

<213> Homo sapiens

<220>

<221> misc feature

<222> (705)

<223> n equals a,t,g, or c

<400> 1394

```
ggtggtggtt catggatggt gataaggaat taaaatgtac cgtgcgactc tctgtttcag 60
tggtgacttt tacctgttta gtataaatat tcctttgctt ccaaccataa atgtgttctt 120
agaaatgggc ctatagttaa gtaacctata gtttggtaat aggcttggtt gttttcagat 180
ggattttggt tctgtgagct aaagctatct tgcattaaag ccttcgtcct cacacattgt 240
tttgacatat ttctagtctt cataaacttt ttaatttag atttttttcc cttcacaagt 300
atacatctgt tttagcaaat agccttatga aggttgtaga tgtattattt tgggcatgcc 360
tggtgatttc tatatttttt ccaattacat ttaaagcttt atgttttagg aatataagta 420
cattttattt ctacttttta ttatatatat ttaattgcac aagtactact gtctagaaaa 480
aaatgggatg ttgctaacac agcattgttg gctttagggc agtgctgtcc tgtaaataga 540
ttgaaatgta tttttatcag ctggtatata aatttgagga aagaaaaaaaa aaaaaaaaaa 600
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 660
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaangggggg gg 712
```

<210> 1395

<211> 920

<212> DNA

<213> Homo sapiens

<400> 1395

```
aattttttcac ttccagacgg cgatacaggg attccagatg cgctttttacc gttccgggtac 60
tgatattcag cgctctgccg atctccttat ttgattcgcc cgccgctaac atgggttaaaa 120
tctcccgtcg gcgggcgctt aacgatttga gatctttaat gtccttttcc ggcgtcgtcc 180
gccagtctcc aggcagaaac atcatcccca tcgccgcaact atttaccgcc aacgcaaagt 240
tctcgacggg tgaatcacga ggcacaatgg ccagcacatt aaaatggata acttctctgta 300
accaccgttt attgcaatcc gtcgccgtaa ttaacacctt aacctcagga aattgcacca 360
cggttttttt cagcaaccag tagcaaaact caccatcctg atcgccatcg agcataacta 420
aggcttcagg gtaacttttc agcttttgcc ataactcgtc tgcttgactg gccccctgaa 480
tactcactcc tggaatacgc tgctgtaaac tgattttcat tccatgaata aatattgact 540
gcctgtcaaa catgactatt tgcataactg aatctccacc tgaatacgtt aaaaagactt 600
aagtagtgga aggggtattac ccgcgagaaa aaataagaat tcgccatttg gcggtggcca 660
ttctacagag atgacgtgta gaaaatagtt accgatataa atagttacag ctaaacgcct 720
gaaattacat gtcgagggca ctattttaaa caattttgag gatttcctta tattggtggt 780
tagtacgcat gcaattaaaa atgaaattcc gcgaccacaa gccaaaataa caaacggcaa 840
ggagacaaaa ataagcacia atagccaaca cgctctctgt tcacttttaa gggaatcgct 900
gaaaaatacg ctctgtttta 920
```

<210> 1396

<211> 1101

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

873

<222> (930)

<223> n equals a,t,g, or c

<400> 1396

```

tcgacccacg cgtccgccca cgcgtccgca accccctctt taaaatgcaa aatggccctt 60
ccctaaaata acacacaacc acaaccgcag ctggctctgc acgaaggcca tgctgcagct 120
cttttcttcg gaagtcgatt ttccctccgtg gaatttggtt gggcttgttg tagcgtttga 180
gactctgcaa gagcacgtcc acgccaacca gtctctgggtc accgactggc tcgcaaattc 240
cccatTTaag gaaaccagca ggccctctgtt atgaaactcg ggggaaggaa gtgaattatg 300
ctccatgcgg aggtccctgc tcctgcacgt ttccagacct tttccatggg ccacgggtgga 360
gcatttgggg aaggcctgtg tggattcccc cccaagtcca gactgatgcc cctgatacct 420
tctcaggagg tggcggaggg tctgggctct gtccaggctc ctagggggtg ggacgtgcag 480
gtaaagcaag gcgtctgccg cagacgcggg agccctccct gggctggctg ccagcacctt 540
ggagtcccag gctgccagga aaagtTcacc cacaccggg ctttgcctggc gaagggtgag 600
tcatatgatg gccgggctcg ggccctcagc agacaccaag tgtgttccca gagcagccgc 660
tcagcgctcg taacctggaa caggccagcy ttccggggsc tcagttttct catctgcta 720
atgggaatag caattccac cttccctgtg ttggttgggt tctcactaga tgcacaggag 780
acagcagctt kagagggact gtttggarar ctgttccatg tgacacccct cttaccctgt 840
ccccacgggg ccggaggagc aggggcttgg tgatagcagc tgggcgcagt cagcctctgc 900
agggaagagg gcatgtttgg ttcgaggctn ytatgccctc attcttgttg atcttgtcac 960
agccctctcg gaaggtggag atggtactcg ctcaggaacg ataccactca aggaagcatg 1020
gccccctgga tggggtggcc cttggtgcac ctgaggctcc tgaggctgca gagcaccatg 1080
gtgggggagg aggcggctgt g                                     1101

```

<210> 1397

<211> 448

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (448)

<223> n equals a,t,g, or c

<400> 1397

```

ttaggcagaa tgatcacctc cgttgtttca ggtactctgt gtttatttat gcaacagttc 60
atgtaaaatg gagacgaggc cagargawtc cttgagcagm cagagccagt tgggcctcct 120
aagtgcactt aaccttgctt gatttgcaag catgtctgaa actttatttg tggatattct 180
tgtaaatgcc tatgttaaaag aaacacagaa cttaagctca accaatcaga agcagccaac 240
aaaaacgtaa ttagtaacta ggacttcctc atgggataga ccaaataagg caactgtata 300
actgtgtaac tgtataactg taaccaatga aatattatct ttgcttttat ctatttgtcc 360
taaaaagcct cctcctcatg ttctctctgg ggagctccct akccacttct ggmTcactgc 420
tcaaataaac tcytaaatat tttaaaaan                                     448

```

<210> 1398

<211> 763

<212> DNA

<213> Homo sapiens

<400> 1398

```

agatttacct tgagcacttt ccaaattgat actttcaaac ttattttaaa gcagtagaac 60

```

874

```

cttttctatg aaytaawtca catgcaaaac tccaacctgt agtatacata aaatggactt 120
acttattcct ctcacyttct ccagtgcccta ggaatattct tctctgagcc ctaggattga 180
ttctatcaca cagagcaaca ttaatctaaa tggtttagct ccctcttttt tctctaaaaa 240
caatcagcta ataaaaaaaa aatttgaggg cctaaattat ttcaatgggt gtttgaaata 300
ttcagttcag tttgtacctg ttagcagtct ttcagtttgg gggagaatta aatactgtgc 360
taagctgggtg cttggataca tattacagca tcttgtgttt tatttgacaa acagaatttt 420
ggtgccataa tattttgaga attagagaag attgtgatgc atatatataa aactattttt 480
taaaaaatat ctaaatatgt ctcacatatt tatataatcc tcaaataac tgtaccattt 540
tagatatttt ttaaacagat taatttgag aagttttatt cattacctaa ttctgtggca 600
aaaatgggtgc ctctgatgtt gtgatatagt attgtcagtg tgtacatata taaaacctgt 660
gtaaacctct gtccttatga accataacaa atgtagcttt ttaaagtcca ttgtattgtt 720
ttttctttca ataaaagagt ataattaatt gtgttgtttt tga 763

```

<210> 1399

<211> 319

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (274)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (295)

<223> n equals a,t,g, or c

<400> 1399

```

cgttgccagt gtatgacaaa agtaggagtt agtaaaactaa tatattttgt acattttgtt 60
ttacaagtcc taggaaagat tgtcttctga aaatttgatg tcttctgggt tgatggagat 120
gggaagggtt ctaggccaga atgttcacat ttggaagact ctttcaaatt ataactgttg 180
ttacatgttt gcagtttatt caagactgct gtatacatag tagacaaatt aactccttac 240
ttgaaacatc tagtctatct agatgttttag aagngcccga tgtatgttaa aatgnataag 300
gtattaaata ccccttttg 319

```

<210> 1400

<211> 1575

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1450)

<223> n equals a,t,g, or c

<400> 1400

```

gcaagttcag attcgtatgt tggatgtcaa tgacaatata cctgtagtag aaaataaagt 60
gcttgaaggg atggttgaag aaaatcaagt caatgtagaa gttacgcgca taaaagtgtt 120
cgatgcagat gaaatagggt ctgataattg gctggcaaatt ttacatttg catcaggaaa 180
tgaaggaggt tatttccaca tagaaacaga tgctcaaact aacgaaggaa ttgtgaccct 240

```


875

```
tattaaggaa gtagattatg aagaaatgaa gaatcttgac ttcagtgtta ttgtcgctaa 300
taaagcagct tttcacaagt cgattaggag taaatacaag cctacacca ttcccatcaa 360
ggtcaaagtg aaaaatgtga aagaaggcat tcattttaaa agcagcgtca tctcaattta 420
tgtagcgag agcatggata gatcaagcaa aggccaaata attggaaatt ttcaagcttt 480
tgatgaggac actggactac cagcccatgc aagatatgta aaattagaag atagagataa 540
ttggatctct gtggattctg tcacatctga aattaaactt gcaaaactty ctgattttga 600
atctagawat gttcaaaatg gsacatacac tgtaaagatt gtggccatat cagaagatta 660
tcctagaaaa accatcactg gcacagtcct tatcaatgtt gaagacatca acgacaactg 720
tcccacactg atagagcctg tgcagacaat ctgtcacgat gcagagtatg tgaatgttac 780
tgcagaggac ctggatggac acccaaacag tggccctttc agtttctccg tcattgacaa 840
accacctggc atggcagaaa aatggaaaat agcacgccaa gaaagtacca gtgtgctgct 900
gcaacaaaagt gagaaaaagc ttgggagaag tgaaattcag ttcttgattt cagacaatca 960
gggttttagt tgtcctgaaa agcaggtcct tacactcaca gtttgtgagt gtctgcatgg 1020
cagcggctgc agggaagcac agcatgactc ctatgtgggc ctgggaccgc cagcaattgc 1080
gctcatgatt ttggcctttc tgctcctgct attggtacca cttttactgc tgatgtgcca 1140
ttgcggaaag ggcgccaaag gctttacccc catacctggc accatagaga tgctgcatcc 1200
ttggaataat gaaggagcac cacctgaaga caaggtggtg ccatcatttc tgccagtgga 1260
tcaagggggc agtctagtag gaagaaatgg agtaggaggt atggccaagg aagccacgat 1320
gaaaggaagt agctctgctt ccattgtcaa agggcaacat gagatgtccg agatggatgg 1380
aaggtgggaa gaacacagaa gcctgctttc tggtagagct acccagttta caggggccac 1440
aggcgctatn catgaccact gaaaccacgr agaccgcaag gcscacaggg gcttccagag 1500
acatgggccg gagcttcagg cagctgctgt ttgcactgaa cgaggaattc ttaaaaaatt 1560
tatttcactg gttaa 1575
```

<210> 1401

<211> 1313

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1249)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1268)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1283)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1291)

<223> n equals a,t,g, or c

<220>

<221> misc feature

876

<222> (1295)

<223> n equals a,t,g, or c

<400> 1401

```

caacacccca tctctctctc tctaaaaaaa gagaactggc cgtgagctat tgtgcccagc 60
tgggatcttg acaaagacac tatttctctc ctttcacctg tgctgtgtat ttttccctcg 120
cctagtcccc agacctcact gctatatgtc ttctccctgg caggcaggat gacgcaaaac 180
acggtgattg tgaatggagt tgctatggcc tctaggccat cccagcccac ccacgtcaac 240
gtccacatcc accaggagtc agctttgaca caactgctga aagctggagg ttctctgaag 300
aagtttcttt ttacccttgg ggacactgtg ccttccacag ccaggattgg ttatgagcag 360
ctggctctag gggtgactca gatattgctg ggggttgtga gttgtgttct tggagtgtgt 420
ctcagcttgg ggccctggac tgtgctgmgt gcctcaggct gtgccttctg ggcgggggtct 480
gtggtgatcg cagcaggagc tggggccatt gtccatgaga agcaccggg caaacttgc 540
ggctatatat ccagcctgct caccctgrca ggctttgcta cagctatggc tgctgttgtc 600
ctctgcgtga atagcttcat ctggcaaaact gaaccctttt tatacatcga cactgtgtgt 660
gatcgtcag accctgtctt ccctaccact gggtagacat ggatgcggcg aagtcaagag 720
aaccaatggc agaaggagga gtgtagagct tacatgcaga tgctgaggaa gttgttcaca 780
gcaatccgtg ccctgttctt ggctgtctgt gtcttgaagg tcattgtgtc cttgggttcc 840
ttgggagtag gtcttcgaaa cttgtgtggc cagagctccc agccctgaa tgaggaagga 900
tcagagaaga ggctactggg ggagaattca gtgccccctt cgcctcttag ggagcagacc 960
tccactgcca ttgtcctgtg agcygccaaa gaccccaagg ggtgcccga tgtccctgtc 1020
tagggcagcc caggggcccc actcctggct cctcacactt gcctccccta tggccgctct 1080
ccagaccctc ctcccttctt ctccccacat ccgcacctgc tgttcccact ctgggggttct 1140
caagtccatg aacagatatt gttgcatttt ccacaatgct gattaaacat aataaacaat 1200
ccagaaaagc araaaaaaa aaaaaaargg cggccgctct aaaaggatnc ctcgaggggg 1260
cccaagcntt aagcgttgca tgnngaagtca naagnccttt ccctaatagt gaa 1313

```

<210> 1402

<211> 530

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (469)

<223> n equals a,t,g, or c

<400> 1402

```

cactaagga acaaaagctg gngctccacc gcggtggcgg ccgctctaga actagtggat 60
ccccgggct gcaggaattc ggcacgagtg aacccttgc tgcacgcac atagtgaatg 120
gagaaaagaga tgaaactgcc acagctcctg catcacccac aacagayagc tgtgatggaa 180
atgcttctga cagtagctac aggactccag gcataggccc agtggctccc cctagaagaa 240
agaggggagc aaacagaaac caaggtacaa gagagggaaa atggggaaaag ccctctggaa 300
ctggagcagc tggaccagca ccatgagatg aaggagacta atgagcaaaa acttcacaaa 360
atagccaatg aacttttgc tactgaaaga gcttatgtca accgacttga cctcttagat 420
caggtatttt attgcaaact gttggaagaa gcaaaccgag gctcgtttnc agcagagatg 480

```

877

gtgataaaat ctttttcta atttcatcaa taaatgcttc catagtaa

530

<210> 1403

<211> 1410

<212> DNA

<213> Homo sapiens

<400> 1403

```
gaaaatgtat ataataggca aggaaagaaa tacagtactg tttctggacc cttataaaat 60
cctgtgcaat agacacatac atgtcacatt tagctgtgct cagaagggct atcatcacc 120
tacaactcac attagagaac atcctggcct ttgagcactt ttcaaacaat caagttgact 180
cacgtgggtc ctgaggcctg cagcacgtcg gatgctaccc cactatgaca gaggattgtg 240
gtcacaactt gatggctgcg aagacctacc ctccgttttt ctactagata ggaggatggg 300
agaagtttgg ctgctgtcat aacatccaga gctttgtcgt atttggcaca cagcagaggc 360
ccagatatta gaaaggctct attccaataa actatgagga ctgccttatg gatgatttaa 420
gtgtctcact aaagcatgaa atgtgaattt ttattgttgt acatacgatt taaggatatt 480
aaagtatttt cttctctgtg agaaggttta ttgttaatac aagggtataat aaaattatcg 540
caacccctct ccttccagta taaccagctg aagttgcaga tgtagatat ttttcataaa 600
caagttcgag tcaaagttga aaattcatag taagattgat atctataaaa tagatataaa 660
tttttaagag aaagaattta gtattatcaa agggataaag aaaaaaatac tatttaagat 720
gtgaaaatta cagtccaaaa tactgttctt tccaggctat gtataaaata catagtga 780
attgtttagt gatattacat ttatttatcc agaaaactgt gatttcagga gaacctaa 840
tgctggtgaa tattttcaac tttttccctc actaattggg acttttataa acataacata 900
aattttttga agtctttaat aaataaccca taattgaagt gtataatata aaaaatttta 960
aaaatctaag cagcttattg tttctctgaa agtgtgtgta gttttacttt cctaaggaat 1020
taccaagaat atccttttaa atttaaaagg atggcaagtt gcatcagaaa gctttatttt 1080
gagatgtaaa aagattccca aacgtgggta cattagccat tcatgtatgt cagaagtgca 1140
gaattggggc acttaatggg caccttgtaa cagttttgtg taactcccag tgatgctgta 1200
cacatatatt aagggctctt ctcaaagaaa tattaagcat gttttgttgc tcagtgtttt 1260
tgtgaattgc ttgggtgtaa ttaaattctg agcctgatat tgatatgggt ttaagaagca 1320
gttgtagcaa gtgaaattat tttggagatt ataataaata tatacattca aaaaaaaaaa 1380
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1410
```

<210> 1404

<211> 1442

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1377)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1419)

<223> n equals a,t,g, or c

<400> 1404

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cttctatatt agatggacag atttatatac ttttccatgg aggattaagt aaactgaaac 60
ctaagacaca cgaagaaatt ctaagtggaa aggccactta ttagttagtt tacagcagta 120
```

878

```

tcgtaagtga caggatgata ggagtgtggt aagtgatcag gataataatc tgcttagtaa 180
gagaaacaat ttgaatttta gaaggaaatt gccttaccat ttgcaaatta aggtaattaa 240
aatacagtga atttcaaaaat gccttttttaa tgacaatgtg tgaacttaat ttgttttaat 300
aaaccaaaaat tgttggttatt gtgttaaggc tattttacat tgaatgtgta tcttgccact 360
gatgttaact tatccccatct tacccaaggt tgtaggtaac aatatactat tgggtgacag 420
tggactaaca tctctagtga tccctttgtc agtggctctt aacttaaaat aatttagaga 480
atatggtttc tacaacttac atttttgttt wcttgtaact acagattatt atgatggttg 540
taatgaagat tatgagtata attggagcta tatgtttctg aattctgaac aactatttat 600
aaaattttat cctacttttt tctgttgaac atatgacttc tctggctctgc taaacacata 660
cagaccttta gttttggttt acatggattt aaatatatag atatatcact gtaaaataaa 720
cttcaggtgt aacagattta tagagaaagt aatcatattt gtttatgggt gtgtacctac 780
tttgagaaga aaagaaaaat attagaatga acagataatt ttacaagtgt tgatcactta 840
ccagcaaaccc agaaacttca gagattttga aagcaaactc attttctctg ctgtgtatta 900
aattcattta tctaaaatgt tattgtcctt ggcttagaat catcttctgc aaattctctt 960
tttttgttgt ttgtctgttt gcctgttgct caccatagac ataattttct tttcataaaa 1020
cattctttgt ataatcacct cagagattat gaaagtgcact ttgataaaat ttaatgggtgt 1080
tcacaaaaata attttcacgt gagtaatttc acagtgcgtg tattgtatgt tatttagtgt 1140
attttatatt ttgtttcaat tagagaatgc tattgaatcc agtttttgtt tagttactgt 1200
tcattttact ttataaaatt gacataattg agtttattaa atttattggg ccaatttaag 1260
taaacagttg aacgtttcat aagtcatgag gtcttttttg gcatatacat gaagtaaaca 1320
aagacaatac taggctatgt aataggragg ctaccttaat taggaggtaa atattcnttt 1380
tggaaaattgg gcccggtggc ctcgggtgga aaatggggna atatccctag gtaaaaaaat 1440
gg 1442

```

<210> 1405

<211> 1689

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (976)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1671)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1680)

<223> n equals a,t,g, or c

<400> 1405

agctccaccg cgggtgacgnc cgctctagaa ctagtggatc ccccgggctg caggaattcg 60

879

```

gcacgagggtt acattcagta tggtaatgaa gaacagagaa aacaggcttt tgaagaattg 120
cgagatgatt tggttgagtt aagtaaaagcc aaatatcga gaaatattgt taagaaattt 180
ctcatgtatg gaagtaaacc acagattgca gagataatca gaagttttaa aggccacgtg 240
aggaagatgc tgcggcatgc ggaagcatca gccatcgtgg agtacgcata caatgacaaa 300
gccatttttg agcagaggaa catgctgacg gaagagctct atgggaacac atttcagctt 360
tacaagtcag cagatcaccg aactctggac aaagtgttag aggtacagcc agaaaaatta 420
gaacttatta tggatgaaat gaaacagatt ctaactccaa tggcccaaaa ggaagctgtg 480
attaagcact cattggtgca taaagtattc ttggactttt ttacctatgc acccccacaa 540
ctcagatcag aaatgattga agccatccgc gaagcgttgg tctacctggc acacacacac 600
gatggcgcca gagtggccat gcactgcctg tggcatggca cgcccaagga caggaaaagt 660
attgtraaaa caatgaagac ttatgttgaa aaggtggcta atggccaata ctcccatttg 720
gttttactgg cggcatttga ttgtattgat gatactaagc ttgtgaagca gataatcata 780
tcagaaatta tcagttcatt gcctagcata gtaaatgaca aatatggaag gaaggtccta 840
ttgtacttac taagccccag agatcctgca catacagtac gagaaatcat tgaagttctg 900
caaaaaggag atggaaatgc acacagtaag aaagatacag aggtccgcag acgggagctc 960
ctagaatcca ttctncagc tttgttaagc tacctgcaag aacaygcca agaagtgggtg 1020
ctagataagt ctgctgtgtg gttggtgtct gacattctgg gatctgccac tggagacgtt 1080
cagcctacca tgaatgccat cgccagcttg gcagcaacag gactgcatcc tgggtggcaag 1140
gacggagagc ttcacattgc agaacatcct gcaggacatc tagttctgaa gtggttaatr 1200
gagcaagata aaaagwtgaa agaaaatggg agagaagggt gttttgcaaa aacacttgta 1260
gagcatgttg gtatgaagaa cctgaagtcc tgggctagtg taaatcgagg tgccattatt 1320
ctttctagcc tcctccagag ttgtgacctg gaagttgcaa acaaagtcaa agctgcaactg 1380
aaaagcttga ttctacatt ggaaaaaacc aaaagcacca gcaaaggaat agaaattcta 1440
cttgaaaaac tgagcacata ggtggaaaga gttaagagca agatggaatg attttttctg 1500
ttctctgttc tgtttcccaa tgcagaaaag aaggggtagg gtccaccata ctggttaattg 1560
gggtactctg tatatgtgtt tcttctttgt atacgaatct atttatataa attgtttttt 1620
taaatggtmt ttttaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagggggg ncccccaan 1680
gggccccaa 1689

```

<210> 1406

<211> 708

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (675)

<223> n equals a,t,g, or c

<400> 1406

```

ggttttggat gttgctgccg gcatgattaa accaggtgta actactgaag aaatagatca 60
cgctgtacac ttagcatgta ttgcaagaaa ttgctaccct tctccctga attattataa 120
tttcccaaag tcttgttgta cctcagtga tgaagtcatt tgccatggaa taccagacag 180
aaggccctta caagaagggtg acattgttaa tgtggatata actctttatc gcaatgggta 240
tcatggggac ctgaatgaga catttttttgk tggagaagtg gatgatggag cacggaaact 300
tgttcagacc acatatgagt gcctgatgca agccattgat gcagtgaagc ctggtgttcg 360
gtacagagaa ttgggaaaca ttatccagaa gcattgccaa gcaaattgggt ttttagttgt 420
tcgaagctat tgtgggcatg ggaatccaca agctttttca tacagctccc aatgtacccc 480
actatgctta aaaataaagc agttgggagt gatggaagtc gggccatgta tttacaattg 540
gagccaatgg tttgtggaag gcggatggca ggatggaaac ctggggcaga tgggtgggac 600
tgcggtggac aagagacggg aaagcgttct gcttcaattt tgagccacca acccttctctg 660

```

880

gttcaacagg acaantgggt gtggaaaatc cttaaccccg gcggcttt

708

<210> 1407

<211> 838

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (753)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (810)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (813)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (831)

<223> n equals a,t,g, or c

<400> 1407

accacgcgt cgcgtcatat caccaatcct gagcaaacc ttcttgaac taatttgaca 60
ggatttcttt caccggttga caatcatatg aggaatctaa caagccaaga cctamtgtat 120
gaccttgaca taaatatatt tgatgagata aacttaatgt cattggccac agaagacaac 180
tttgatccaa tcgatgtttc tcagcttttt gatgaaccag attctgattc tggcctttct 240
ttagattcaa gtcacaataa tacctctgtc atcaagtcta attcctetca ctctgtgtgt 300
gatgaagggt ctatagggtta ttgcactgac catgaatcta gtcccatca tgacttagaa 360
ggtgctgtag gtggctacta cccagaacc agtaagcttt gtcacttga tcaaagtgat 420
tctgatttcc atggagatct tacatttcaa cacttatctc ataaccacac ttaccactta 480
cagccaactg caccagaatc tacttctgaa ccttttccgt ggcttggga gtcacagaag 540
ataaggagta gataccttga agacacagat agaaacttga gccgtgatga acagcgtgct 600
aaagctttgc atatcccttt ttctgtagat gaaattgtcg gcctgctgt tgattctttc 660
aatagcatgt taagtagata ttatctgaca gacctacaag tctcacttat ccgtgacatc 720
agacgaagag ggaaaaataa agttgctgcg canaactgtc gtaaacsma attggacata 780
atattgaatt tagaagatga tggatatggn acntggccag ccaagaagg naaccctt 838

<210> 1408

<211> 932

<212> DNA

<213> Homo sapiens

<400> 1408

gaagaatctt actgaaaatc aagaagctct tgcaaaagaa atgcgagcag atgcagatgc 60
ctatagacga aaagtggatc ttgaagaaca catgtttcat aagctgatag aagcaggtga 120

881

```

aaccagagc cagaaaactc agaaggtgat taaagaaaat ttggcaaagg ctgaacaagc 180
atgcctaaat accgactggc agattcagtc tttacataaa caaaaatgtg atgatctaca 240
acgaaacaaa tgttaccagg aagtagccaa actccttagg gaaaacagaa ggaaagaaat 300
agagataata aatgcaatgg tggaggagga agccaagaag tggaagggaag ctgaaggaaa 360
agagttccgt ttgagatcag caaagaaagc ttctgctctt tcagatgcgt ctgaaagtg 420
gttttttaaag caagagataa atgcggtgtg agaacatgct gaaaatccat gtcataaaga 480
agaaccagg ttccaaaatg aacaggactc aagctggttg cctagaacct cacaattaaa 540
tgactcttct gaaatggatc cctcaacaca gatttcttta aatagaagag cagtagaatg 600
ggacaccacg ggacagaatc ttattaagaa agtgagaaat cttcgccaga gactcactgc 660
ccgggctcgt cacagatgtc aaacccctca tcttttgggt gcatagaatg catgtcacct 720
tgagacggtc gagagagaga cctattttgc aatcagtgac attgattttt agattattta 780
tttaaaattc ctataaagat cagccctttg tacagaaaaa tgtgtctata aaaattatgt 840
gttattttaat tctgatactt tttggcttgt aaatggcttc ttgaactttt tacaataaaa 900
atgttttaga aactgttaaa aaaaaaaaaa aa 932

```

<210> 1409

<211> 765

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (671)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (749)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (751)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (760)

<223> n equals a,t,g, or c

<400> 1409

```

caaaatcagt gctgtgcccg gcgtcaggcg tggagacaac agaaagttgt gcttaaagct 60
cgaatcagaa atccccggcg agtgtctctg tgtcctccct gcttctctgc tctgtgccat. 120
ccttactttg caccattcct attgcaatta cctcaaccag ttcgctgccc tcggtctctc 180
accagccaga gtgatcattt aaaatgccaa tcagttcctg tgggccttgg gaatmatyca 240
gaggagcccc attggctgag agataaaaatt ctgtttttac ctgggcacgc gggctctcca 300
ggatttgatt ccagcttacc tttccagtct tgattcccta tattccagta tttggaaatg 360
tgggccttgg actgaggctt taccaaataa cgctgarcac ctagtattgc cttttgcacg 420
aatggtactg atggtgcccc agataaactgc ctccamcccc aagttcagga cccagatcac 480
tctctggaga aggccctcagc ctcttgccctk ggctttcaag gctctgcgtg atttggatac 540
tcgcttagct cttattttata tatattttta aagcatcagc agtttatctc atgcccaacta 600

```

882

```

aactatcctg cctccgtacc ctttggtcat actttctgct ctgtgtggaa tgcccttctt 660
tcttcccctg ntctttctct tagacccaag ggttctcaag ccttatttct gcctctccca 720
tctcaaaaaa taaaataaat aaataaacnt nataaaaaan tcaaa 765

```

```

<210> 1410
<211> 532
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (38)
<223> n equals a,t,g, or c

```

```

<400> 1410
agtgagctga gatcatgccg ttgcactgca gcctgggnga cgagcgaaac tctgtctcaa 60
aaaaccaaaa aaacaaaaaa gcaaaaaaac cccacaatcc agtgagtaag acctcagccg 120
gcctgaggtt cacagggttt aaatggaatg cagtgggaag taaagagtga tccaaggag 180
aagtaaaaaat cttgacacct tactctcttc ggcttgtecc acttttcttc aactgccccg 240
ctactggaac attttctctt tctcaatttc gattgtcccc ttaagcaatt tactaattag 300
acattaaaaac ttcttattct ctcaatccca aagcaaaact gatgagcaga gcaaaccaga 360
gcagttgggg ccagaacaga acaaagacgt acctgatgca gggaattgaa gccagaccca 420
aaacggggca acccaatagg atggggccatc tgccccatt aatgccagct tgtccaagtg 480
taattattaa cagtgtcccc tttcactctc caaagagtcc tgtccagaca gt 532

```

```

<210> 1411
<211> 552
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (33)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (363)
<223> n equals a,t,g, or c

```

```

<400> 1411

```


883

```

nattatccct cactaaaggg aacaaaagcn ggngetccac cgcggtggcg gccgctctag 60
aactagtgga tcccccgggc tgcaggaatt cggcacgagc aagtaattta tatttctatc 120
tgttgtgtat ataatcgtct ctttagagtt ccagacagct gctagtgtcc aaatatgttt 180
ttctaaagaa atattttgtt tgtgagtacc aacagtctta gtaactctct tatccctctt 240
atgtgctgag tacagtcgga ggaagaggaa ttggagttgg tgagtgtggg tttctgcttg 300
aaggaagttg aaaaagatgt agaaagtact aattctctta cgtgttgta tctaaccaat 360
gtnccttttg ttacacaaat ttttttaaac actattcaaa cactttgaat aaagcaatct 420
actggtacta cagactctag ttttcctatt tataattgta tgtgttgacc cattttatatt 480
gttggaggga acattggaat agagccttta aaaacagtag ctgtccatga gcataggata 540
cttggttaatt tt 552

```

<210> 1412

<211> 1100

<212> DNA

<213> Homo sapiens

<400> 1412

```

ggctaaattc tactcttgaa gggtcgtagt ccacagcacc aaaatgactt aagtcctata 60
aaaaaaaaaa aaaaaagtta attctctgca ctgaagaaag tccatacctg gctcattttg 120
ggcaattctt tctcagtttt atctttttct ttggctaaat ccttaatcat ctgcttcagc 180
tgtttctgat aatcaactgc atcaccttga aacaaaggaa aacaatatgt ggtttaattt 240
aaataaattc agtgacagca aaaaggaaac tatgtaggag agaggagcaa gggggtgagg 300
aattccacta agcaaattcc atacaaaact ggaaagcaag agattcccct ggagagccag 360
tgggtggtaa ctgggggact tctgctctaa gaggaccctg gaaacagcaa acaggaggaa 420
ggaacttggg ggtgggggca aggggcagcc acccagcaac acccccacta ggagcacttc 480
tgtcctctaa aggcagttag tttggggata attcattgga cgaagggaaa agacaaggct 540
gctacaagaa gagggatgag ggcaaccctg gtgcctcccg ccactgcagt ggtatgcagg 600
ggaaagcaac aatgaaaaga ggtacgtgcc attgggtttc ccgaaaacca ggggtctcga 660
tgttgacaac agaggattcc tcaacggcga ctggctgtct cggtcatttt cagtgagtgc 720
ttaaaaaaag atgagaggtt taaattaaac aaattttctg ccttaccaaa actgacagta 780
atgtagcttt ctaggcaact aaaggctaag ccagcagctc ccagcctgtg gactgtagtt 840
tttgagggtt ccacgaaccc aaatgcacac caagcactgt ctggataccc agagaaaaata 900
aaatgtcccc cacaccaagt gtgccttttc ccagaggatg gtggagactg ttgtaattaa 960
caacatacac attcatagaa ggacactgct aatactgatt tggaaaaaat gtatgtagtg 1020
aaatcccatt ttgtaaaact gaaatatatc catgcacaca taaagtactc tagaaataaa 1080
tactactaat ctcaaaaaaa 1100

```

<210> 1413

<211> 563

<212> DNA

<213> Homo sapiens

<400> 1413

```

tttacatgtt cctccagtgt tgagaaaaac ctaatgccyt tttttgtgtt aagtttacct 60
attaatttta attttttagt agatagaact tagatgacgg atttaacctt gaagtaggtt 120
tgtattttta aatctatttg ctttgattac cacagacagt gattgaggta gatgggcact 180
atctggctgc ttatatgaag gttttgaaac cattctgtta atccttttaa caaatggtta 240
tctgtccttt tctatcttat aataaaagat tgaagatatg acttagtatg ctcatgttac 300
tgtttgctta gagatgggag gctattttta tttttcatgc tgttctaaat catgaaaagaa 360
taggtaactt tgtactcatt tcttaattta aatttaagaa gcactttagt attttttgta 420
ttggtatttc agatccctat tgagtttttt aactgaagtc ggagcaaatg aattgagcat 480

```

884

tctgagtact tggctaataca agtgatgaag aggtagtaat atgaattctg ggacctaggc 540
 atagatgacc tgattctgtt ctc 563

<210> 1414
 <211> 583
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (3)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (5)
 <223> n equals a,t,g, or c

<400> 1414
 ntnantaagg gaacaaaagc tggggctcca ccgcggtgac gaccgctcta gaactagtgg 60
 atcccccggg ctgcaggaat tcggcacgag catataaatt atcttaatga tctaggtatt 120
 ttgttagggg aatacatata gtcaggatag gataagaggg gaagtaatga gtggtttact 180
 aaatatataa gacaaacatt tcaagtaaaa atttcaggag aaaatTTTTT tttaggtttc 240
 taagaaatat atttgtggat gtggaatttt tctgycagat gacgtaagag caaagttgaa 300
 gatagctaata acytggggat tcatakggag gtaattTTTT atttaaaatg agcaagaagg 360
 accctagcct tttattgttg tcttggaac tcattcccca ccagtatcat tccttgaaga 420
 aatggttggt tctaggtctg gggcaggaaa tatatgrgat aagctgaaac atcttgacta 480
 tcagcaaaga ttttatcaaa cgatgctagg gttgtgtcag aaggactcag cagccaactg 540
 aagacgttcc cactggccaa aatagggcac attgagtatc tgt 583

<210> 1415
 <211> 418
 <212> DNA
 <213> Homo sapiens

<400> 1415
 ggtactctgt taaaattcct gtgtaaactg ggacttttct tttcactttc ytgtgtttca 60
 agaacagtag gtgttcagg gcttttgtcc tgctgggtac aagcaagtag gattttgaga 120
 aggtgtgagg aggaggtcag aaaaattggg ggaaatagga aagagaaaaga aatatggccc 180
 cgattttggg gagagaaagt ctggggaaag agcaaaggca attaaagagg attttgagga 240
 agagacttct gtaaaatatg tcttagcaac acttttttga gttgaaaata tttcttttta 300
 gtgtgttatt ttttctaaga ggtgcctcaa gatggataat ggaagatttg gactacgatt 360
 gggttgacaa tccaaggaga ttcggtgaca tccagattac cctgaaaaaa aaaaaaaa 418

<210> 1416
 <211> 513

885

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (435)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (473)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (498)
<223> n equals a,t,g, or c

<400> 1416
gcttacataa cctacattta ttccatagct tagtgattac attacacagt cagtcagaat 60
ccttgattct gctattttact agctaagtgg ccacaaataa gttattttaa tcctctaagc 120
ctgcttctgt agttgtaaaa tgagagttat agcagcacct accacctaag attttgaggt 180
ttgaatgaga aaatgcatgt aaagctttgg gcattgtgca tgatgtaaac actcaaagt 240
tactgaagtc aataaatgtt aactattttt tagcacactt cagtgggctt atatcaccag 300
tcaaaatgat acacagtatt ttatttaaat gctttatgta aattatattt tactagctat 360
taataaatta actcttgga cttttgccat ggtttaattt gaaaaattga aaataaatgg 420
aaaaatcata aaaantccat ctattttggg atttacacat aataaccact atntgggttc 480
aaagttttaa aatactance atggctgggc cgt 513

<210> 1417
<211> 442
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (24)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (42)
<223> n equals a,t,g, or c

<400> 1417
cctcactaag ggaacaaagc tggngctcca ccgcgggtggc gnccgctcta gaactagtgg 60
atcccccggg ctgcaggaat tcggcagcag gccctccctg cgtttagatt cagttgcacc 120
ttttattatt ttaactcttc tccttaggac acgcagcccc caatttkctc ctccggcctg 180
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886

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<210> 1418
<211> 929
<212> DNA
<213> Homo sapiens

<400> 1418
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<210> 1419
<211> 244
<212> DNA
<213> Homo sapiens

<400> 1419
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cacccttgtt gcggaagaat tgcaccagct cggctattca ctggcgctgg gtcgcgaata 180
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cgcg 244

<210> 1420
<211> 172
<212> DNA
<213> Homo sapiens

<400> 1420
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gtgaagacrc ggaacaagcg ctgggagtgg cgggtggcga cggggctcgat gg 172

<210> 1421
<211> 2293
<212> DNA

887

<213> Homo sapiens

<400> 1421

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<210> 1422

<211> 1660

<212> DNA

<213> Homo sapiens

<400> 1422

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888

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<210> 1423

<211> 310

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (115)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (119)

<223> n equals a,t,g, or c

<400> 1423

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acatcctaac tctgacttct ttggrcagga gggagaaacc cagtttggat tccccaatgc 180
agcaggaaac catggttctc agaaagaaag aaatcttatc actgtgactg gcagctcatt 240
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<210> 1424

889

<211> 3106
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (14)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (74)
 <223> n equals a,t,g, or c

<220>
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 <222> (106)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (3075)
 <223> n equals a,t,g, or c

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890

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<210> 1425

<211> 352

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (282)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (283)

<223> n equals a,t,g, or c

<400> 1425

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<210> 1426

891

<211> 1967
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1956)
<223> n equals a,t,g, or c

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaancccc gggggggg 1967

<210> 1427
<211> 879
<212> DNA
<213> Homo sapiens

<400> 1427
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892

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<210> 1428

<211> 521

<212> DNA

<213> Homo sapiens

<400> 1428

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ctgctacaga agtagagcca aaggatggtg agattgttgg cctttcagga agagtgtta 300
agattcctgc aagctggaca aatccctcag gcaaatatca tattggcata aaaaatggct 360
atgacttcta tcctaaggca ctcaaggaaa ggwtacagaa agaacggaag gaaaaaatct 420
gggaccctgt tcacagartg gcccttgcag aagcctgtag aawacaggaa gratttgatg 480
ttgccaaaca cggctcttct caagcaaata aactaatcaa g 521

```

<210> 1429

<211> 306

<212> DNA

<213> Homo sapiens

<400> 1429

```

aagtcactgg gcttagctgg cctctgagcc tgtatgaact cttgttgctg aggcaaccat 60
ggacctgttg ctaggagata gctggggaag cccaaggccg cccagggcag agagaggaga 120
cgaagagttt gggacagtgg gggaggagat ggggaaggat gggatttctg ggtcccagag 180
cgggtgggat actcacgcac agcttcttca ctggtggggg gtggggcaca cattatttct 240
cactggtcat gatttacaag aagaaaaata aaactgcttt tggaacccaa aaaaaaaaaa 300
aaaaaa 306

```

<210> 1430

<211> 745

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

893

<222> (470)

<223> n equals a,t,g, or c

<400> 1430

```

aacc caagac aatgagctag tttccctaa agtttgc tga actattaagg aatatgttct 60
tatagctttt gactagaatg agtcatggga attctaaraa gggatggcct agacattttt 120
agctcagtta aattcagcat ttaatgcagg tgagttcctg ggtcgttttc caactagtct 180
ggaacagtct ggttctgact caaactggta taaagcatta ttttaggttt tctctttgcc 240
agtttttaag cagttataac catgtaaatc aagatgtgag gacatctata tgaagtatag 300
taaagaagtg gtgtcagcag atcaatatgt gtgtcctggg tgtgctgctc tcttaagtga 360
gactttgtga gactatactt taaatgcatt attaccattg cttacatttt gggggatttt 420
cttcctcttc aaaacttcca tttctattgt aatattctta atgacaatcn tttttttttt 480
ttagcagtgat atgtttgaaa cagccaaaga tggcgatgaa ccaagtgtaa attgatctaa 540
gcagcccatg cagtttgtgt tgaatcaaca aacagtgtat tgttgaagtg aaattatttt 600
ctgaaatgac ttgttagacc agttttgagg acatactcaa aagtagagta ataatggctc 660
ctgggatgga gaaatatgag atgaacctgg aacattctat tatggtgcc aagggaaat 720
ctaaaaaaaa aaaaaaaaaa aaaag 745

```

<210> 1431

<211> 931

<212> DNA

<213> Homo sapiens

<400> 1431

```

cagccccaat gtccagcctc tttaacatct tctttcctat gccctctctg tggatcccta 60
ctgctggttt ctgccttctc catgctgaga acaaaatcac ctattcactg cttatgcagt 120
cggaagctcc agaagaacaa agagcccaat taccagaacc acattaagtc tccattgttt 180
tgccttggga tttgagaaga gaattagaga ggtgaggatc tggatatttc tggactaaat 240
tccccttggg gaagacgaag ggatgctgca gttccaaaag agaaggactc ttccagagtc 300
atctacctga gtcccaaagc tccctgtcct gaaagccaca gacaatatgg tcccaaatga 360
ctgactgcac cttctgtgcc tcagccgttc ttgacatcaa gaatcttctg ttccacatcc 420
acacagccaa tacaattagt caaaccactg ttattaacag atgtagcaac atgagaaacy 480
cttatgttac aggttacatg agagcaatca tgtaagtcta tatgacttca gaaatgttaa 540
aatagactaa cctctaacaa caaattaaaa gtgattgttt caagggtgatg caattattga 600
tgacctattt tatttttcta taatgatcat atattacctt tgtaataaaa cattataayc 660
aaaacattct gtttaccttt tcagggctgt attgattggg gtgtagactg aactatccgg 720
ggtctgtttc ttttcggtga tgaaagtcct gagaaggtag taatggataa gatgtgaggg 780
agaggagaga gggagatttg gagtgtaggg tgagtgtccc tcttcttaga actgaatact 840
cttcttctaa tgaacttgta ttcttgtttc catgtcttct tccctttcct tctatagcaa 900
ataaagcatt cactttgttt tggaaaaaaa a 931

```

<210> 1432

<211> 364

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (340)

<223> n equals a,t,g, or c

894

<220>
 <221> misc feature
 <222> (341)
 <223> n equals a,t,g, or c

<400> 1432
 aattaaattc tttgcaaaat tgaacttctc aactaaaacg tgtccatgtc agaattttta 60
 ctgtagcag gtagtttgtg gcaaagatgg ctaaataatg aagcaaatta gaatctgcgt 120
 gtatactaata gagctgcttt ttttctgttg agactatcat tatttgtctt attaccaag 180
 aggcaattac ctgaatttgg atgtctgaat tataacttat gcaggaatag ttctgtaaat 240
 acattttaaata aaactgtaaa gatatttaata aatatagta ttataactaa aaaaaaaaaa 300
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa naaaaaaaaa aaaaaggaac 360
 caaa 364

<210> 1433
 <211> 2593
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (20)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (180)
 <223> n equals a,t,g, or c

<400> 1433
 ccccggtttt aatgccattn aaaatttatg tttgagggtta ccacaacttg ttttaaaaag 60
 actttgtttt gtgaatttgt actgtatatt tgagtaactg tcaggctttt atttaaaatt 120
 gtttmacatg taccatgtac atgtcattac tatattttcaa tgcacatgc ttgtaacagn 180
 gcattttcatt tataataaga atgagttatt catttgtaag ccgttcagta atttatctac 240
 tattcctaaa ttggcataat gttagataat ctattttgaa tcacctttaa ttacatgtca 300
 gaatgcctta actaccctaa cttgacaaaa cagaattctt tggtagacgc ggtggggggcg 360
 ggggtgggggg tctggacgga gtctctattt aaggagaaat catcatgcta tgcataaaac 420
 acagaagcat gagtggcaag tggcggggta tttattttgc acaaactatt tgcagtctct 480
 gtgtatttaa aaagtaaaga aagttgcac cagaagggtt ttgttagaat gaatacattt 540
 atattaggac tgacaacttc agctcttttg tttagggttt caattatttt tggtaagagt 600
 atgtagcctt atgatctgga tatattttgc attcattttc caacgcctac atttaattcc 660
 tggtaagagc agtgctcgtc aagtttcttg ttttctctg ctctcattta acccgtcaaa 720
 cacaatcttt gttaaagctag attggtggtg ttttatacaa cttattttact cagcttacct 780
 ttttgagaaa cgattgttag aaattgacga tgtgtttgtt ccagtgtacac tgaaagtagt 840
 gggggcaaga attgagtttc acagtggaat tggctttgga tctggcctat agatttagtga 900
 cataaaatat tttctctatt ttccctgtt ctttttgtgt tatgcaactta attttatgac 960
 tgccgggggg gtcagctgga gtgctgctta acaagtatct ctctactct cagtgggtcag 1020
 aggctgtgtt ggaccatag tagaattttc caggtcacag acccaagctt ccatgggttg 1080
 ttactgtgct gtaccacttg gtgggtctga ttctgaacct gatgtgtgtg ttaattatat 1140
 tttaagcaac acacacacac acacacgcct catgtaatgg acttttataa caaaagaaaa 1200
 aatttggatt tctaatttac aaatggcaaa ttatttatcc ctctctggat gcaccaaaga 1260

895

```

ccagtaaagt ttatagcttt tccatctata ttataaaagc aatactgtat tataaaaaatc 1320
aatattttta tcacatgctt gaaattttta ttttgttggt ttaaaatgtg cactcctaac 1380
atatcagaac cttatttctt cctatgaact taagctgcct gcgcacaaaa aaaaaaaaaa 1440
tttaccaaat ggagatgcag tagagtccat aggctctaaa aactaaaaga aatgggatgc 1500
agggggaaca agttatttgt cctgagttac tgtacttgct tgacatgggt gttgggtact 1560
aaatcacaaa agaatccatt ccaggtatgc atgtctgggg gttgggctgt gtctagatta 1620
gaaactgggt ttcaagcttt gcatgatggg agagcgtcct ctctctatc agctgcgtgt 1680
gttctggata ggacagtagc ccggagatgg aaaccacctt cagtaccatt agcccacat 1740
accaagtaac aagttaggca ggaatcgtgg gaatttattg agtcagcttt gagtgtttga 1800
gagaatgtaa acaagattgg ctgcaattgt aaacgtttgt actttggatg agttcatggt 1860
tctttaggtc accttaatac cagctatctt tggtagaagc tacagcattc agtttctctg 1920
gaaactgtat cacattttttg catttttaaa attttacagt atcaaaaaac caaaatctgc 1980
ttatgaaaca aaacatgaag caggacatat ttggattcta ttattttaaa attaaattct 2040
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tagtttgtgg caaagatggc taaataatga agcaaattag aatctgtgtg tataactaatg 2160
agctgctttt tttctgttga gactatcatt atttgtctta ttaccaaga ggcaattacc 2220
tgaatttggg tgtctgaatt ataacttatg caggaatagt tctgtaaata catttaaata 2280
aactgtaaag atatttaata aatatagtat ttataactaat ctgtgtgctt cttttgggtt 2340
gaatagtaac taaatgagac accagccctt gacattgagt ttgttggtea ctatcaggtc 2400
ctcatttcca agcctcctag tcattctagc actgattata tgctgctact ttaactggct 2460
ccagctgctt cactacatca gtttagcttc ctcagaaatt catcaaaatg gacggacaat 2520
taaatgtaaa ttatagaact ttttcccagc tgaggctttg caccttccgt atagtataga 2580
gggaagctac aaa 2593

```

<210> 1434

<211> 1052

<212> DNA

<213> Homo sapiens

<400> 1434

```

ggtttttccc gggatacatc tgtgttgagt cactttgcat tcaacagtgc ctgcgccacca 60
aatcatata taagaggaaa actaggactg gaagaatatg ctgtctttta cccaccaaat 120
ggtgttatcc cttttcatgg attttcaatg tatgttgac cactttgttt tctataccat 180
gaaccttcca aattgtatca gatattccgt gagatgtatg tgcgtttttt cttcagactc 240
cattccatct cttctcatcc ttctggatatt gtgtcactct gtctgctgtt tgaaactctt 300
cttcaaactt atcttcccc aactctttat catctacgag aaattggggc tcaaccactt 360
cgcatatcat ttaagtggat ggttcgagct ttctctggat acttagctac agatcagctc 420
ttgcttttat gggatagaat cctaggatac aactctctgg aaattcttgc tgtgctggca 480
gctgccgtgt ttgctttccg agcagtgaac ctgatggagg tgacatcact ggctgcagct 540
gaaaatctag ctgccacag tgaacagttc tgcactgctc ctctattccc tgagctttac 600
agagtccaga tcccattgtac tgctgaactc aggcagaaaag aagagtgcag tttattggac 660
tccaaatctc attcaacaga acaaagaagt tgaggttgca aggaagaacc tataatgatg 720
ggtcatggaa tataacctag aaaagaagag aaataaaaga gactgtgttt caccatgttg 780
cccaggctgg tctcgaactt ctgagctcaa gcaatccacc ctctcagcc tccagaagtg 840
ctgggattac aggcattgaga caccaagtcc agccataagg ttcttattct atatatacat 900
gaaatgatat cacttgaagg tagactgtga taagttaaat acgtatatatt tttaaatctt 960
caaacaacca ctaaaataaa agaacaaaga gttacaacta aaaaaaaaaa aaaaaaaact 1020
cgtagggggg gacggcgtac ccaattacgc cc 1052

```

<210> 1435

<211> 665

896

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (385)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (659)

<223> n equals a,t,g, or c

<400> 1435

```

ggcacgagcc gatagctgct tcgggattgg cgtccggggcg gctatctagg ggctgctggg 60
aagatggcgg actcgggtggc tagccgatga ggaggccgcg gggggaaccc ggcccccggg 120
ccccgagacc gactgagggga ggcacctgcg cagggcccgg ggagtcattg tctccatcac 180
ccaactccat gcttcgagtc ctgctctctg ctcagacctc ccctgctcgg ctgtctggcc 240
tgctgctgat ccctccagta cagccctgct gtttggggcc cagcaaattg ggggaccggc 300
ctgttgaggg aggccccagt gcaggctcctg tgcaaggact gcagcggctt ctggaacagg 360
cgaagagccc tggggagctg ctgcnctggc tgggccaraa cccagcaag gtgcgcgccc 420
amcaytactc ggtggcgctt cgctgctctg gccagctctt ggggtctcgg ccacggcccc 480
ctcctgtgga gcaggtcaca ctgcaggact tgagtcagct catcatccga aactgcccc 540
cctttgacat tcacaccatc cactgtgtgc tgcaccttgc agtcttactt ggctttccat 600
ytgatgggtcc cctggtgtgt gccctggaac aggagccaaa gcttcgcctc cttcgaagnc 660
acctt 665

```

<210> 1436

<211> 1104

<212> DNA

<213> Homo sapiens

<400> 1436

```

aaagatgggc aacttacggt cggactgggtg ggctacctaa tgttggtaag agttcaacaa 60
tcaacrccat catgggcaac aagaaagtat ctgtgtctgc cacacctggc cacacraagc 120
actttcagac tctctatgtg ragcctggcc tctgcctgtg tgactgtcct ggcttggtga 180
tgccatcttt tgtgtctacc aaggcagaaa tgacttgcag cggaaatcctc ccaattgatc 240
agatgagaga tcatgttcct cctgtatcac tagtttgcca gaatatcca agacatgttt 300
tagragctac ctatggcatt aacatcataa cgcctagaga ggatgaagat cccacccgac 360
ctccaacatc ggaagaactg ttgacagctt atggatacat gcgaggattc atgacagcgc 420
atggacagcc agaccagcct cgatctgcgc gctacatcct gaaggactat gtcagtggta 480
agctgctgta ctgccatcct cctcctggaa gagatcctgt aacttttcag catcaacacc 540
agcgactcct agagaacaaa atgaacagtg atgaaataaa aatgcagcta ggcagaaaata 600
aaaaagcaaa gcagattgaa aatatcgttg acaaaacttt tttccatcaa gagaatgtga 660
gggctttgac caaaggagtc caggctgtga tgggttacaa gcccgggagt ggtgtagtga 720
ctgcatccac tgcgagctct gagaacgggg cgggggaagcc ctggaaaaaa catggcaaca 780
gaaataaaaa agaaaaaagt cgtagactct acaagcacct ggatatgtga ggttgggctg 840
caacagaaat gtcactgtca ttgtgcagat ggaaaagagc agaagctgcc tgttgcctgt 900
ggaactgtcc caagacacta gcactgtaga acggggccctg ctcttgcaga gcacggctgc 960
acccaacagt ctccatgtca agaccaaggg cctcctggaa acaccaactc tgacaaaaag 1020
gagtcactct ggagcccgag aatcctactc ctggccggggc acagtggcac gcaccaacat 1080

```

897

ggagaaaccc cgtctytact aaaa

1104

<210> 1437

<211> 359

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (335)

<223> n equals a,t,g, or c

<400> 1437

```

ccagggtgggt gccctgggtc ttggtgttgt gactggggga ggaggggtgt taggggctgg 60
gggtcacctt atattaacat gaactagagc acacccttgt catggctgga cccaacagta 120
agaggcaaac ccagggtgtc catgtcccta ggatgctcca gctgctctg gggccacgag 180
tctcacatga ggactggccg cccttgtgta caggggcaag agggggccag gtccctgtcc 240
tggccaggct gttagccgca gtaccacag agaccaccgc cctcctctgc tttccccgga 300
gaggggcttg gcttctagca gtcagagcag ggctnttcca aaagggtggg ccttgcccg 359

```

<210> 1438

<211> 409

<212> DNA

<213> Homo sapiens

<400> 1438

```

ggaggccgta cctccgagag gctcggcggt gagccgggta gggccagggt gctgcccttt 60
cacctagggt agtccctggt cgcctccgct cttcgcccaa aaggggatgc agctccggga 120
aacaagtga ttcatggtat tttacttttt tgggaaatac trgaaatgaa gacctgcaac 180
tgtaatttgr aataaggaaa actttaattt tcrgtataaa aattgctcaa atagaattgc 240
ctgattttta tgacaaaagg tgaattatag tttaatgtac tgcaagtcct aaactacgga 300
tgggaactat tacagtttat aatgtcaaaa acttttctta gaccaaagggt atcttccaca 360
aagtatatgg gagtccacat ttatgtaaga aatgaaacta taaaatgta 409

```

<210> 1439

<211> 404

<212> DNA

<213> Homo sapiens

<400> 1439

```

gtgttgagag cgggtgtggca ggtgttgtag ccgctatggt gaagttcgct ttgtagcggc 60
cccggtctaga gagttgkyct gttccctgcc tttgtgaccc ggagagcttt tgggaactgg 120
tttgtggcct gtttgattcc tgtcagaggt ttgctgaccc aagacagtat cgaaaatgca 180
tattaagtca attattctag agggattcaa gtcctatgct cagaggaccg aagtcaatgg 240
ttttgacccc ctcttcaatg ctatcactgg cttaaattgt agtgggaaat ccaacatatt 300
ggactccatc tgctttttgc tgggcatctc caacctgtct caggttcggg cttctaaatt 360
tacaagattt tagttttaca aaaatggggc aggcttggta tttta 404

```

<210> 1440

<211> 352

<212> DNA

898

<213> Homo sapiens

<400> 1440

```

aattcggcag agaaattata taaacctgtt gtctctcacc tctacattgg atcacatgg 60
cacctgcctc atggaaatgc ctttttttaa acttcgattt gcagaactcc actattttta 120
tacctagcta cagtttttgag aaagaagaat cagaaccttg acccacttac gggtgctggg 180
acaattcccc ctcccgcacg tattgctgca gtgcccagga cagtaaaatg gactacaagc 240
ggcgyttcct gcttggcggg tccaagcaga aggtgcagca gcacagcaat acccgatgcc 300
tgagctgggc cgagcactga gtgtccccctg gcatccacgg ccaccaytgc cc 352

```

<210> 1441

<211> 557

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (549)

<223> n equals a,t,g, or c

<400> 1441

```

ttcggcacga aggagactgt aaacaaagat atttgtgaaa agggaacaat tcagcaaattg 60
ataggaatct ttaaaaatat aataagcaag cctaattgaaa aggaagaagc cattgttttg 120
gaaatccagt ctgatataatt acttatccta tctggcsttt gtgagaatca cattcaaagg 180
aaggaaaattt tcggaactga aggagtagat atygttcttc atgtgatgaa aacagacccc 240
aggaagttag agagtggctt aggctataat gtacttcttt ttagtacatt ggacagcatt 300
tggtgctgta ttttgggatg ttatccctca gaggattatt ttcttgaaaa ggaaggcatt 360
tttctccttt tggatttggt agcattgaac caaaaaaatt ctgtaattcta atacttggga 420
ataatggttg aattttgtga ataattccaa aactgcagct catgtcaatg cttggcaagg 480
gaagaaggat cagacagctg ctagtctttt aatttaaatt gtggaggaaa ggaggaaaaa 540
gaactaggng taaaacg 557

```

<210> 1442

<211> 568

<212> DNA

<213> Homo sapiens

<400> 1442

```

tcaatgttcc attttgcttt taaaagcttc acaagaacat ttcatttatt aaaatagttt 60
ctgtaaactc tttcagaata acaaaattca cttgccttgc ttaaacagca tttcaagtag 120
aagtattttt atttcaaggc accataaaat gatgatctct ctaagaaata cctctccttc 180
cgtgtgtgaa aatccttggg ggaaaaaaaa tcccacacgg tgttcttggc catcaggatc 240
atgaaaacaa acttttggtga atgtgagcaa ctgcgccaga caggacacag gttacagggc 300
ctgacgtcac taacggtaac tgacaatctt ggaatggacc ctactgctga tgtttcaaaa 360
ggacacagag gtgaactggg cacttctaata taagaagagc cagtgggggtg ggggaagctg 420
aaaacaaaaa atccacgtag acatacgtgg cagtgtgaac gtctgtcctc cccttccttc 480
tcctcacttc ctctcctcct cctcactcag gctgggtattc tcctgggtgtg cggatgtcag 540
cttgccctgc agaagcctct gccgaatt 568

```

<210> 1443

<211> 654

899

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (106)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (156)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (547)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (549)

<223> n equals a,t,g, or c

<400> 1443

```
cctcataagg gnncaaagct ggagctccac cgcgggtggcg gccgctctag aactagtgga 60
tcccccgggc tgcaggaatt cggcacgagg tttgcttcaa aagggnata ttatactctc 120
tctagtaatc caaagggtatt cctaattttg ccaactnctca ttttcgcttc tctttaaggg 180
ccttatagta tggttctaatt tctcatttgg tagtatgcaa cattcaatat ttctagctct 240
aaagttccat catthaattat ttcttttttt cttttttttt tctttttttg agactccatc 300
tcaaaaaaaaa aaaaaaaagca aaattgttgg catctctaag acagagcaag actccctctc 360
taagagatag tagtgtctcc cacttaattg aattcgtttt gttttgtttg ctttgctttg 420
attcttgcca cgtaaaaatct gtgggtcttg accagagatt tgctcagaca gttaaggaaa 480
aataatgaag atgtatttgt gaaattttta cataatgaaa aatgagatgt atttgtgaaa 540
attttangna taaacctctt tataaaatac gtttgtaaaa tataaaaagag gtaggatgtt 600
ttgggctaaa tttagccaca ttctggggtc catacacaca cacacacaaa cagg      654
```

<210> 1444

<211> 899

<212> DNA

<213> Homo sapiens

900

<220>
<221> misc feature
<222> (77)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (452)
<223> n equals a,t,g, or c

<400> 1444
gtcttattga actggataat ccaatattat ggataacaatg tcatacagta ttatggaggc 60
atatgtgtaa ttatcantat aaataaatact ggagaaatctt ccggacgtca gaagtcggaa 120
atggctctca ctgagttcaa atcaagggtgt tgggaaggct ccactccttt ggggggctgt 180
ggaggaggat ccatttcttt gccttcccca acttatggac tctgcattcc ctggcttggt 240
gccccttctt ccattcttcaa agccagcagc gtagttcttc ccattctcct catattcttc 300
taacgctgac ctgccttctt cttacgaaga ccttggcatg acatcggccc accagataat 360
ccagcctgag caacagagcg agactttgtc tcagaaaaaa aaaaatcagc ttataataag 420
tgccataaag aaaataaaac tgggagacat gnaagagact gactaggggt gtatgtctaac 480
agatggggca gtcaggaagt cttycctgag gaggtgacat ctgagctgag atctgaatga 540
aggataggat ccasccacag attgatctgg gggagaggca ttctaggcag aagacgtggc 600
tagtgcaaag gtcctgaggt aggaatgcac ttggcatggt caaagaacac agagtcgggt 660
tggctggagc agagcaagtg aggaagagga ctgggagatg aatcaggaag gtgccggggc 720
ttgtaggctc agatgaggaa tttgaggact cttggtgctg agggagaagc gtgaaggaga 780
tgattgatca gggctgactt ctccggagaa ccactgggct ggtatggagg cagcatgaga 840
ttccgagtgg tcaactcaga ggcgagaatc agcaaccca gcatcaactt cagttcgtt 899

<210> 1445
<211> 365
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (61)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (343)
<223> n equals a,t,g, or c

<400> 1445
ggcagcagca gagatagggt ttttggaggg ctctctctggg aaatggcccc acagcattct 60
naggttggtgc atgaccagca gatactatcc tgttggtgtg ccctgggggtg ccatggctgc 120
tattcgctgt agattaggct acataaaaatg ggctgagggt acctgttttg ggagatgggg 180
tggcctgcag tgacacagaa aggaagaaac tagcgggtgt ctttttaggcg ttttctggct 240
tgacggcttc tctctttttt taaatcaccc ccaccacata aatctcaaat cctatgttgc 300
tacaaggggt catccatcat ttcccaagca gacggaatgc ctnatttaat tgaaagttag 360
tgttc 365

901

<210> 1446
 <211> 376
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (157)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (323)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (340)
 <223> n equals a,t,g, or c

<400> 1446
 aaaaaaagaa aaaagaaatt tgtgaagttc tactgctcta gttatgcagg gtggcaggat 60
 ggcattggta aattgacttg aagtgagaaa aaataatttc tggttttatt ctaagtattt 120
 aaaactgtaa attcataacc atgattcatg attttgnatt acaagtctta tgaattctta 180
 gaacttcaga agtggccggg tgtgggtggc cacactgtaa atcctggcac tttgggaggc 240
 caaggtaggc ggaccacctg aggtccagaa gtttgagacc agcctggcca tcgtgggtgga 300
 aacccccatc ttctacttaa ggnatacaaa aacttaattn ggggtattggg ggtggcacat 360
 gcccgtaaat ccccgag 376

<210> 1447
 <211> 303
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (281)
 <223> n equals a,t,g, or c

<400> 1447
 aattcggcag agctgagatg aggaagtata tatttgggta tcatttttac atcctgttga 60
 aagctccagg aagagtgggc caattctaag ctgttcattt acagagaagt tgctctcacc 120
 ttttcttttc cttctaaatg aactttggag ccctgatctt ctttctaagg gacaaccaga 180
 ccctcctttc atgcattccc cttcagagtc gctgctagtt gcctggctcg agtgragtgg 240
 catTTTTgaa ttttggccgc ttcagctgtc ttggggggcct nggggagggc tcccacctct 300
 ttt 303

<210> 1448
 <211> 525
 <212> DNA
 <213> Homo sapiens

902

<220>
<221> misc feature
<222> (511)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (522)
<223> n equals a,t,g, or c

<400> 1448
ggcacgaggg cgtgagcact gcacccagcc aaaaatttta catcttttat agagggaaaa 60
aaactcttta taccatggca aggccttttc ttccacaaaa agctgggcct actgaacaat 120
tcaagctgtg cagtagtaga ctgaaagcag gatttggtga ggagttacag ctctgtcca 180
gagcaaatcc tgtagtgata caaggagaat gtaaacttgc cagcttagac agggatcagt 240
cctgagactg ctggcagtag caaatggcta ttagagtaac tgtataatgg ttttgccctgc 300
actttctcta tgtatataca aatgtacatg tataaatata aaaattaagk gatcatggtt 360
cttggttaacc tgtcccaagt gctgkgattc acacgcctga cactaaaagg ttcttccctgg 420
tccagtcagc cagctgtrac caccagcagc acagctgagt gctgagaatc tggctggaaa 480
ragaaatgtg gctcaagtgc tggctcacct nctagctgtg tnggg 525

<210> 1449
<211> 619
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (62)
<223> n equals a,t,g, or c

<400> 1449
ttaccattgg aatttaattt aagacaaatt tagtgtgaac agtgaattta ttttaagacaa 60
anccttaaag attttagaaa taatgacctt agttttttca tgatgggccc ttaccacaaa 120
aacctgcttt ggcatttggg taacccagac ctcatgctgg gttaaagtat atagatataa 180
cagtaattca gatttaaatgc atatcttgga ttgggactga ctgaggaacc tcttgtttta 240
aagtgatttg tagtataatc ataacgtttg atccttttgg gtaaaatagt agctgacaaa 300
aaataaatac aaattaattt tcatgctcat ctttacctga aagactcaga tttctcttta 360
agccagctca ggaatattag gctaaaccca gctgttttgc agatgttctt actcagattg 420
aaacatcaat taattaacag gtatctattc atatttaact agaaccctgc taatgtagag 480
aaataatact tttttaggag atcttttttc agttctctct aaaatgtcat tttatataaa 540
tttctcttat atttttataa gattgtatac taggattgag gatgtatagg tacatattta 600
taggatgcta tcaatttgg 619

<210> 1450
<211> 316
<212> DNA
<213> Homo sapiens

<220>

903

<221> misc feature
 <222> (3)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (6)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (166)
 <223> n equals a,t,g, or c

<400> 1450
 ccntgnagta gctgggacta caggcacacg ccaccatgcc cagctcattt ttgtattttt 60
 agtagagatg gggtttcacc atgttggcca ggatggctcc atctcttgac cttgtgatcc 120
 gcccgactcg gcctcccaaa atgctgggat tacaggcgtr agcatncaag tctggcgaga 180
 garattgttt ctagatgagg gtgggggcgg gtgtccttag cccaaagctt gtgccagtct 240
 ctatcagaaa taaatgcccc caaaacctca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
 aaaaaaaaaa aaaaaa 316

<210> 1451
 <211> 365
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (46)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (50)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (160)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (353)
 <223> n equals a,t,g, or c

<400> 1451
 ctcaaatgaa ggtttgcagt ctgtctaate aaaggatggg gcgtantgcn taaaatcaaa 60
 agattttgta aaacaaagggt acttattttgc aaaagctggc tatcctctaa gaagggtctca 120
 gtctttacca accaccttat tgagcccagt aaggggttgn tcctctgtca atgttcgatt 180

904

```
atctccagga aaagagacca gatgcagccc accttccttc acctataagt acacacctga 240
agaggagcag gaattggaaa agcgggtgat ggaacatgat ggtcagtcct tagttaaatc 300
gaccattttc atctctccat catctgtgaa gaaagaagaa gccccccaga gtnaggcgcc 360
gcggg                                           365
```

<210> 1452

<211> 770

<212> DNA

<213> Homo sapiens

<400> 1452

```
caagtcgaac ggtaacagga agaagcttgc ttcttttctg acgagtggcg gacgggtgag 60
taatgtctgg gaaactgcct gatggagggg gataactact ggaaacggta gctaataaccg 120
cataacgtcg caagaccaa gaggggggacc ttcgggcctc ttgccatcgg atgtgcccag 180
atgggattar ctwgtwgggt gggtaacggc tcaccwaggc gacgatccct agctgggtctg 240
agaggatgac cagccacact ggaactgaga cagggtccag actcctacgg gagggccagca 300
gtgggggaata ttgcacaatg ggcgcaactg atgcagccat gccgcgtgta tgaagaaggc 360
cttcgggttg taaagtactt tcagcgggga ggaagggagt aaagttaata cctttgctca 420
ttgacgttac ccgcagaaga agcaccggct aactccgtgc cagcagccgc ggtaatacgg 480
aggggtgaag ckttaatcgg aattactggg cgtaaagcgc acgcaggcgg tttgttaagt 540
cagatgtgaa atccccgggc tcaacctggg aactgcatct gatactggca agcttgagtc 600
tcgtagaggg ggtagaattc caggtgtagc ggtgaaatgc gtaragatct gggaggaata 660
ccggtggcga agcggccccc tggacgaaga ctgacgtcga ggtgcgaaac gtggggggagc 720
aaacaggatt tagataccct ggttattcca cgccgttaaa cgatgttcga 770
```

<210> 1453

<211> 562

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (519)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (524)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (557)

<223> n equals a,t,g, or c

<400> 1453

```
agcctttctg ctcttgaact aaaatcccta gccaaagacct tccacttggg gaatcccaat 60
ggacagaaac agcagctggg ggacgccttt ctcaaattgg ccaaacagcg ttcagtctgc 120
acttggggca agaataagcc tggaattggg gcagtgattt taaaaagggt ttgttggcta 180
ttgttacagt aaaaacattt aaaatgttga tagcacatat taacttacag tagrttgat 240
ayttgattga actgtaattg tttatttcag ttgtagttag attgagaagg ctggaaaagc 300
```

905

```

cttaattgca atagcckgga ttctttcttg gggtattatt caaaattttt gtcgtaatac 360
cgtactaatt tccmggacca agaaaaatcg garggcaata ggcctttggg aaattgtagt 420
attttatttt cccgagaaaa atacagtttt aagtgatcct tatgggattt ttaagggttaa 480
ctatttagtc ccaattttta ttttagtttt ggtttactna aacnaattat atccggcgctc 540
cttaagttgc aatttttccc cg                                     562

```

<210> 1454

<211> 1767

<212> DNA

<213> Homo sapiens

<400> 1454

```

aggccaagca tgcaggcagg cttgtaacaa actccttggc caggagctct gagaattagc 60
ttcacttccc tcagaaatgc cccaattccc tcctggaaga ggagctgtgt gacastcagg 120
ccaggggggtc gggactcccc ccatctcctc cgcacacaca tacccttgca cacataccca 180
gccacgtaca gctgggtggc tgtasgcaag tcatttttct actctgagcc tcagggtctt 240
cctctgtcca cctcccccca ggattamtgg cagaattagg tgtgagcttg catttaaaaa 300
gaggtttgtt ttgtaaaccg aggccttgca aattggcagc ccaagtctca ggggcctgtg 360
cagtgactga tcattaccaa catttcgaag tgagagatgt cacataaaga gcgtcatttc 420
gagcttctct tgaaaagttg taaggtgagc taccctggga ctgtattcct gaatggcaat 480
gtgatggcag agtcttcagc tattaccacc tgwggaacttg tgcaccaggc tcccaccacc 540
ccacttcagg cccttggttc agggatgtgc ccgtcatgga aatamcaggc gctgtggctc 600
tgctggtttt ggctttcctt ctctgtaacc ttccaatata tttctccttc cagggtactgt 660
aaaccactta gtaattaatt agttaataaa ttcatctcat cagcactttt aaataatgtg 720
ctaggccaca ctgtcatgga cccagatat acagcagcaa acaaagcagc catggtacct 780
tccctcaggg agcagtcagt ccagtgagg agtcagatat gactcaccac acagatcgaa 840
aaatctycac aaattatgag aagaatgctg agggaagaaa gaacataggt ggaccgctgc 900
tgagtccagg cttacttgca gagatctatg ctggccaggc cctgtgctag gcagcagagg 960
acatggaata aaatcaaata aggtcactgt gtgcaggact cacggtgtgg taaaggagca 1020
gccccatcca caggttctat taattccagc ctgtgagaat tggaaccaca ggggtgaattt 1080
tgaggagacag gcacttacac taatctggaa gcataatata taaagagtac ctacaaatca 1140
ataaaaaaaaa tagaaaaaaaa aagagcaaa tatatgaaca gaaaattcaa tgaaaaggaa 1200
atagaaatgg ctcttaaatg aatgaaaaca tactctcact cararaaatg aaaatttaac 1260
ccatgtcaar atacttgggg tgaaggaagt gttttaaaaa tcgattgtgg tgatggttat 1320
aaccctataa atttactaaa acttattgaa gtgtaccttt aaaacaaatg aactttatag 1380
tatgtcagtt atatcacaat aaggctattt taaaaataaa aacactttga gataccattt 1440
tatacctgtt ggtattagca aatgtcaaaa cactggataa tgcattatgt tcctaaaggc 1500
atgggggaga cggcctgggg caagcgtcca ctgatgcatt cttgggttgg ggtgggcaac 1560
aggacgctgt caaacatata aatacattta cgctytgagc tgggaattcc actcatagga 1620
cttcatctga tatatatgct ttacatctga aaaatgtata aggaaattca ccacagcctc 1680
atagattatg gcaaaagttt ggaaacaaaa gatgtttgtc tacagggtgaa argttatgcc 1740
actgtcaaaa aaaaaaaaaa gtcgagc                                     1767

```

<210> 1455

<211> 400

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (112)

906

<223> n equals a,t,g, or c

<400> 1455

```

gttttgttgg ctccgttcct gaggtgacac ccggttcacc ccacgtgtta aaccccgagc 60
cgcgggctgc cctgtgctgg atattgccta catccagcag ccctctgagg gnatgggttc 120
tggcctgcct ccgttgccag ggtcctcact ggtgtgacca accatytggc ttttaacact 180
aaaaagcccc acatcctgag gaatcccagg acacagaaaag tcctggggtt tgtcagtgat 240
gcagaagggtt ggggtggaaa tatgaaaccc acacagaggg atgacagcac catttgtagc 300
atcggatgga aatggcgtgg atgatctgcc tcgagtggtc actgtcgcca tgttgccctga 360
cgtggatgct ggcacacagga cttgtgattc accatggatc 400

```

<210> 1456

<211> 1012

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<400> 1456

```

tntgtggcag aaaaatatgt tttccaggta gtttttacta ctacagagag tctgtaaata 60
agtgtctttaa aaaaataaca aaccaataag atatttgyt cctatataaa cattctgtgt 120
atttagcact tggaaaatca acaaatccag aatttaaaaa aatgccacag acttttcaaa 180
gcccactgt acttttttga gaattgtccg tacctactaa tatgccttat tcttcttcac 240
ctagtgtttt aaaagtcctg ggtagaaaaga gtttttagaaa tgtaatcagt tgttcagctt 300
caataatata gagatctaac atagtcagtc ctcaggcccc ctaaagaaac aagcaagaaa 360
gtgagggcca tcactagggt tggctttggg gaggggaaaa ctaaggactg cttttgcca 420
atgatatttt tgataatgta aggaaacaca gggaccacaa aacctttttt tttttttaag 480
tgtgaaagat tagtgccttt tggcatactt ttgatttttag aggatatagt atcggcattg 540
acaaatcacg tagaaacaaa gaatgctata gatgacaaca gtattaaatg ttactcctga 600
ttctgcagaa cagcttttga agatactggg gggatatctt aagcctcaga gcagcttgtt 660
tcagatagaa attctctatg ggttgaaatg ccaaaaacag aaaacatgat gttgactcat 720
gtaatttagt ccatttttagc agagccttta gtgttaacac cagtggcgag gagcattgca 780
tattctctgt cagcagcagc actcccacac cagggtggttc tgggctctct gtaggctggg 840
cctagtaggt gacaccagc aacaccctg ttggacagga ttgattgttc gcagtccttag 900
accaacactt cagtcagaaa tgttactggg aggaggaaaag gaaaatactt ttttctctcc 960
atgtggaaat gaggagagag gaaagtggat tggaaaacca aaatgtgagt ca 1012

```

<210> 1457

<211> 637

<212> DNA

<213> Homo sapiens

<400> 1457

```

ggttttcatt gacactcttc cctcctccca cctgccacca ggctcacca aagcccactg 60
ccatggggcc atctgggcca ttcagagact ggagtgagat ttgggtgtgg agggggaggc 120
gccaaagggtg aggagcttcc cactccagga ctgttgatga aaggacaga ttgaggagga 180
agtgggctct gaggetgcag ggctggaagt ccttgccca tctccactct cctgccccaa 240
tctatctagt acttcccagg caaataggcc cctttgaggc tcctgagtgc cctcagatgg 300

```


907

```

tcaaaaccca gttttccctc tgggagccta aaccaggctg catcggaggc caggaccg 360
atcattcact gtgataccct gccctccaga ggggtgcgctc agagacacgg gcaagcatgc 420
ctcttccctt ccctggagag aaagtgtgtg atttctctcc cacctccttc ccccaccag 480
acctttgctg ggcctaaagg tcttggccat ggggacgccc tcagtctagg gatctggcca 540
cagactccct cctgtgaacc aacacagaca cccaagcaga gcaatcagtt agtgaattga 600
atggaaataa acgctttagt tataaaaaaa aaaaaaa 637

```

<210> 1458

<211> 542

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (539)

<223> n equals a,t,g, or c

<400> 1458

```

cnaccctcac taagggacaa agctggngct ccaccgcggt ggcgggccgct ctagaactag 60
tggatccccc gggctgcagg aattcggcac gagtcttttc agactcagcc cacttgcacc 120
caagtraatt aacagccttg ttgctcacac aaagcctgtt taggtgggtc tctataygga 180
catgcktgac acttgggtgcc aaaatctggg ccaggggggac tccttygtga gaccggcccc 240
ctgtcctggc cctcaytccg tgaagagatc cacctgcgac ctcgggtcct cagaccagcc 300
caaggaacat ctcaccaatt tcaaatcgga tctcctcggc ttagtggtcg aagactgatg 360
ctgcccgatc gcctcagaag ccccytgga catcacagat gccgagcttc gggtramtct 420
tacgggtggag gattcccagc catatgaaga camcttagyt ggacgwcat ccttgtcaaa 480
agtctgaccc ytcaaaytyt acagcytcaa tgggaccaga cctaccggtc atttttagna 540
ca 542

```

<210> 1459

<211> 531

<212> DNA

<213> Homo sapiens

<400> 1459

```

atatccgact cactataggg aaagctggta cgcctgcagg taccgggtccg gaattcccgg 60
gtcgacccac gcgtccggaa tcctaggcct aagattcttc atgtaaaaat tataagactg 120
aataaagaat cttaggccta ggaggagaaa atgattttct ttctattacc taactagatt 180
ggggcatatt tctgataaag acccacctct agtgagattc atcttttttg tttgtgtgac 240
tatattccat agagaagaaa gatgggatag ctcaacttca ttatatacca aagcaaaaca 300
catgccaaat gatgactaca ttttaccac atatttagac gagtattctt gactagtgtt 360

```

908

```
tactatctat acccccaaaa ctactactat atagacagaa tggaaagtat ttctatttgt 420
ccttttttttg ttttctgttc taattgtcag ggacatatgt agtgggtata ggtttactta 480
aaaggaataa atttgggaatg ctcmaaaaaa aaaaaaaaaa aaaaaaaaaa a 531
```

<210> 1460

<211> 607

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (500)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (501)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (583)

<223> n equals a,t,g, or c

<400> 1460

```
tattcacgtc cccagggtca ttcttcagcc tcaggaggaa ttagaaggtc ttcattctatg 60
tcttatgttg atggcttcat agggacatgg cccaaagaga aaagatcatc agtgcattggc 120
gtatcatttg atatttcttt tgataaagaa gatagtgtac agagatccac tccaaaccga 180
ggaatcactc gttctattag taatgaagga cttactctga acaacagtca tgtatctaaa 240
cacattagga aaaatttgtc cttcaagcca ataaatggag aagaggaagc agagagcatt 300
gaagaagaac ttaatataga ttctcacagt gacctcaaat cttgtgtgcc ccttaacaca 360
aatgaactaa attctaata gaataattcat tacaagcttc caaatggagc tttacaaaat 420
agaatacttc ttgacgagtt tggcaatcag atcgagacac caagcattga agaagcatta 480
caaataattc atgataactgn naaatctcct catacacctc agccagacca aattgctaata 540
ggcttctttc ttcattagtc aggaatgagt atcttaaatt canatatcaa gttaaataca 600
tctagtc 607
```

<210> 1461

<211> 121

<212> DNA

<213> Homo sapiens

<400> 1461

```
caggaaggat aagccatgtg gggctctagaa ctgagggctc tagacttcca gccagtgct 60
ctctctgctc taccatgttg cctctagttg gagagacagg gcagaagtga tggtaaagaa 120
g 121
```

<210> 1462

<211> 706

<212> DNA

<213> Homo sapiens

909

<220>
 <221> misc feature
 <222> (682)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (699)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (702)
 <223> n equals a,t,g, or c

<400> 1462
 gctgtcacag gccatggatg ctccatggag ggggtggtgag catatgaata acaatcaaga 60
 gaaacatcgg taatggacag gaggcacaa taaacaatgt ccaccctcct ctaaaaccca 120
 ggaaagttct cattcaaaaag acgatgtctt gaaggaaacm taggtacaaa tctttgtgay 180
 tttggattag acatttttta agtaggcaca aacaaccgaa aaatagataa atggacttca 240
 ttaaaataaa aaacttgtat gcttcaaagg acactgtcaa ggaagtgaaa agataatcca 300
 cataatggga gaactatttc caaattgtat gtttgacaca ggtctagtac ctagagtrta 360
 taaggaattc atataactga gcaataaacg acaaccacat ttaacaatgg ggaaaaaaag 420
 ctgtgagtag aggtttctct aaaggaaaca cacaatggc caagaagcac atgcaaagat 480
 gttcaatgtt tttcgtcatt aggaaaaatgt aaattttaaac caaatgaga taccacttca 540
 maccagcag tatgacttaa gaaaaaatw aagacmacac atgtttcaaa agtgatggag 600
 aatatggaat tctcatatat tactattggg gaatctaaaa tgatrtagct ctgaagttag 660
 taaacagtgt gtgagttcct tnaaaaagtg aaaccttana gnggcc 706

<210> 1463
 <211> 1765
 <212> DNA
 <213> Homo sapiens

<400> 1463
 gagaaaacaa ttctgaccgg agaatgctgt tacctgaacc cttacttcg aaggatcata 60
 agattcacag ggggtgtttgc atttggaactt ttgtctactg acatttttgt aaacgccgga 120
 caagtgggtca ctgggcactt aacgccatac ttcttgactg tgtgcaagcc aaactacacc 180
 agtgcagact gcyaagcgca ccaccagttt ataaacaatg ggaacatttg tactggggac 240
 cgggaagtra tagaaaaggc tcggagatcc tttccctcca aacacgstgc tctgagcatt 300
 tactccgect tatatgccac gatgtatatt acaagcacia tcaagacgar gagcagtcga 360
 ctggccaagc cgggtgctgtg cctcggaact ctytgcacag ctttctgac aggectcaac 420
 cgggtctctg agtatcggaa ccaactgctcg gacgtgattg ctggtttcat cctgggcact 480
 gcagtggccc tgtttctggg aatgtgtgtg gttcataact ttaaaggaac gcaaggatct 540
 ctttccaaac ccaagcctga ggatccccgt ggagtacccc taatggcttt cccaaggata 600
 gaaagccctc tggaaacctt aagtgcacag aatcactctg cgtccatgac cgaagttacc 660
 tgagacgact gatgtgtcac aagctgtttt ttaaaatcat cttccaattc tatacttcaa 720
 aacacacagt tgctcaatgt caaactgtga tgacaaatat tacgtttatc tagttagaag 780
 ctaatgtttt gtacattttt tgtatgagga agtgatgtag cttgccctga tttttttttt 840
 tttttttttg gtcagcttta atatatttat gccagaattt taaaaccaac aaaattttct 900

910

```

tgttcaagcg tgcattgaag aaccacattt attcaatggg tgaygttggt ttgtgatatt 960
tgtacacaaa ttttcttttc tcagttttat aaacacagaa tataacaatt cacttttaac 1020
ttttattacc acagttgctg cctcctccag aatttttgaa ttttaataaa aggcaaactt 1080
ttgagctgca ggaaggacaa tgttggttaa taataaatct caaagtcaat tgtagaaaaa 1140
aaattgtctt caaaaagaat gttgcaactt gatctcttaa caaattgtta cgttcaaagt 1200
ttaaagtgat atattaacar agtcacctag ttatacaaac aattgtcaga gaattctgga 1260
tttggagggt attgggggta tatgattctt tcttagataa tggcctctac taaataactc 1320
aagatctttc tggaatgtct tctggcaggc aggtgccact gtcagctttt ctccaaaaag 1380
cagccaacat cagcctcccc tgtcaactca acagttttgt atctcatatt atatggactt 1440
tatatgaaaa tgaatatttt acagtttgca cagtattatt ttacagaaaa ggaatcagag 1500
aatctacaac ataggggcccc agaacaacag ttctactttg tggcctttta ttattctaga 1560
attttaactg catctcattt ttctagcatg gtgagaacta atatgtaact cctttgattg 1620
aaggagctct tttgtccgta cctatcagaa tgttttcttg acacttccat gttggctctt 1680
ctcagctttt tttgtacata tttttttttt ctaaagagaa gaaaaagtta tcacaaaatg 1740
taaaaaaaaa aaaaaaaaaa aaaaaa 1765

```

<210> 1464

<211> 475

<212> DNA

<213> Homo sapiens

<400> 1464

```

ggaaaacctt tagacttttt ttagcaatta gtttgacatt cgctactata gtaaccaagc 60
actcattata tatgcatect ccaaatgttt catgcttatt tataggaaag ttatattaat 120
gagattaata atgtgaaata cagtttttctt gcaaaattag cattagagaa ttgatttttag 180
ataacagatt tttaaagttt tagagaaaag tacagtaata cagtaaactg aargagtata 240
tagatagcaa taaaataaca taagtggaca tgtttatagt aaatactctg aagtaaacam 300
ccgtttttat taactgcata tcattaggga aagtttatat gtcttggtat tttttattaa 360
cattttattt accattcaga gtgaaaatta ctaatttgrg tattaacaaw taactgrata 420
aatgggtcatt acagtttaggt tttcccaaat tgcmaaattt gccttaggca ttatc 475

```

<210> 1465

<211> 198

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (40)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (170)

<223> n equals a,t,g, or c

<400> 1465

```

tggcaggggc actggccccg cccgcacctt cctagcagcn agttacccaa gaggaagctg 60
ccttgggsct ccagaccgtt aaatgccaac tcctggcttc cgggtatcagg ctggggttgac 120
ctgacctggc cccttcttgc tgggccctgc agctttctaa cttgccgggn ggagcagtgga 180
caccgcctcc acatgtgg 198

```

911

<210> 1466

<211> 514

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (148)

<223> n equals a,t,g, or c

<400> 1466

```
gtggcagagt gccctgcggg actgccagcc ctcctgtcc tccctcagca acctggcgga 60
acagctgcag gccgcacaga acctgcggtt tgaggatgtg ccggcgcttc gggccttccc 120
agatttaaaa gagcggctga ggcgtaanag ctggtggctg gtgacatcgt cctggacaag 180
ctaggggaaa ggctagccat ctcctcaag gtgcgagaca tggtcagcag ccatgtggag 240
cgagtgtttc agatctatga gcaacacgca gacacagttg gcattgatgc tgtcctgcag 300
ccttcagcag tgagcccctc tgtggctgac atgttgaat ggttgcagga tattgagaga 360
cattatcgaa agtcgtacct gaagagaaag tatcttcttt cgtctatcca gtggggagac 420
ttggcaaaaca tacaagcttt gcccaaggcc tgggaccgaa tttcaaaaga cgaacaccaa 480
gatcttgtagc aagatatcct attgaatgtt tccc 514
```

<210> 1467

<211> 649

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (23)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (36)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (83)

<223> n equals a,t,g, or c

912

<400> 1467

```

ggcctntatt ngaaagtcca tcnggttcct aacagngett cctctttcca gggctctcca 60
tggcgtgcgg aacttcccag ggnaacgtga aacctgtccg cagtccytgc ccytgccctt 120
tctttkggag acgtgtgaaw gagcmgcasc cactttaatg tgaggccasc catataaaca 180
atraactttc acttscgccm ggaggtcata aactcaggtc accaaagaat tctagcttca 240
gctcttggtt tagtaatgta ccaagtttgg tattactttt tgtttgttt aatcaggttt 300
ctgccctcat cttctatttg ggaaattaaa actggtctgt tggcatggct ggtgactgag 360
cggcaggcac attcttagtc tctgactttc tgcagccatc tttgagtga tataagtgtt 420
gggtaacagt ctactgaatg tgctacaagt gtgcggagtt gtgttcatt ttaacttggt 480
ttttttaaaa aacactctct tggtaaattg ggatctcctg ttgaaaactg tatttgtttg 540
gcagttgagt ttatgcctgg agcccctaga gcacatttaa ctggttggtg gtcagttgta 600
ccatactgaa aaaaaaaaaa aaaaaaaaaa tggggggggc cgaccccat 649

```

<210> 1468

<211> 479

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (219)

<223> n equals a,t,g, or c

<400> 1468

```

tccagtattt tcgggggctg gtggacgcgt gggcgatagg gtgctgtcct tgggggtgctg 60
tgtatatggg atgatgacgc ttatcagcay tatctagtc tttccacccc gaaattcgcc 120
ccgattaaag actgwgttgc attatcaggt aatgagatgt gagggagggt ctttgaaagt 180
ggaaaacctg ggcgtcgagg ccaactgtgcc atcttgggnc ctcagtttcc ttatctgtga 240
aatgaggggt aatgtaaagc tgctatgtaa aatgtaaagc tctacataaa ccaactctctg 300
cattactttg gatatatgag aatattaacg tttgacgtct acgagactag atcccattcg 360
agcatcacct ccataaacct tacagactaa cccctctttt aaatctcagt ggttcgtaat 420
cttacagact aacccctctt ttatgtctca gtggtcttgc agctggcttt tgttcatta 479

```

<210> 1469

<211> 399

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (377)

<223> n equals a,t,g, or c

<400> 1469

```

gtatccggat gggctcattt tatatgtgtt ttaaactctg agctagaagg caacactact 60
ttcttgtgaa gcacaccatc tgtccttggc cctagggagc tcctgccgtc ggtcactggg 120
tccctgatg caccctttc aacagacttt tcattttggg gtacgtsetg acttcctggc 180
actgcagggt gtcacagcct cctcttgcac tccttgcctt ggcccgggaa tcagcccctt 240
ctccaaggag ccccggttcc ttttattggc aagtcttaag agagtgaggc ctgggtgcca 300
ggcaggggag ccaggtcctt tttattggga agtcttagag agtgaggcct gggtgccagg 360

```

913

tgggtgccag gtgggtncgg tgctgctggg atgttgtca

399

<210> 1470

<211> 460

<212> DNA

<213> Homo sapiens

<400> 1470

```

ttaaaccctca ctaaaggga caaaagctgg ggctccaccg cggtgacggc cgctctagaa 60
ctagtggatc ccccggtcg caggaattcg gcacgaggac tagtccgagt tttttttttt 120
tttttttttta aaacaaatac ttttattgca catttataaa atctgcatag ttgtatcaat 180
ttttttccct ttcatgattc cattaatctt taaaatttgg ttaaaacaca atatccaatc 240
agaagccttt taaaaatgat caatgggaag tattttttctc tacatatata tatatatata 300
gttttgcata tgtatgctgg tttttttttt tttttttttt gtacaaaccc acatccctta 360
cttttaaggg caaaaaagaa ggcsgggtac gatgacttgt ctgcaatccc agactttggg 420
aggctgaggg aggcagatag atcacttgag gccaggagtt 460

```

<210> 1471

<211> 2007

<212> DNA

<213> Homo sapiens

<400> 1471

```

tacattggaa caagaacaag aagcactagt taatcgcttc tggaaaagga tggataagct 60
tgaagctgaa aagcgaatcc tgcaggaaaa attagaccag cccgtctctg ctccaccatc 120
gcctagagat atctccatgg agattgattc tccagaaaaat atgatgcgtc acatcagggt 180
tttaaaagaat gaagtggaa cggctgaagaa gcaactgaga gctgctcagt tacagcattc 240
agagaaaaatg gcacagtatc tggaggagga acgtcacatg agagaagaga acttgagggt 300
ccagaggaag ctgcagaggg agatggagag aagagaagcc ctytgctgac agctctccga 360
gagtggatcc agcttagaaa tggacgacga aaggatattt aatgagatgt ctgcacaagg 420
attaagacct cgcacttgtt ccagcccgat cccttacaca ccttctccga gttcaagcag 480
gcctatatca cctggtctat catatgcaag tcacacgggt ggtttcacgc caccaacttc 540
actgactaga gctggaatgt cttattacaa ttccccgggt cttcacgtgc agcacatggg 600
aacatcccat ggtatcacaa ggcccttcacc acggagaagc aacagtcctg acaaatccaa 660
acggcccacg ccgcctccat ctcccaacac acagacccca gtccagccac ctccrctcc 720
acctccgcca cccatgcagc ccacgggtccc ctccagcagc acctccgagc ctactccttc 780
gcaacattcg gcgcacmcc cctcccagcc ttaatgcatg agcttagtgt gaatttcaag 840
wtgggactca tcmaatggag cgtctactc aaamgcaaag gcttccttct ctggcatatt 900
tggatatgac ttatttgcac tgagggttatc taggcttcac tatccattgt gttgtaaatg 960
tttgtcagaa atgcagccag tgttgtgggt ctacaacact aaccagacga ctttttccat 1020
cagtgttwt cttgaatctt catgtacgtc cattccctgg ctggaacctt cgctgtttgg 1080
tatttgggtat ttcagcagca gtgtgcaatt tttgcttggc ccagagcttc attctcctgg 1140
cttttaggtt tgtaaaagaa aaagggatat cttttttata tktttttcca tgaatctgca 1200
gaaaattact gagctgttgt taccctcctc tcattataat agtgtttacc aaacatacca 1260
ataattcagc actacaattc agacctttga aaatctgggt ttcagtgtag aacagaaagt 1320
tagatgaatc agtgcccaa agacatatttc tgtttaacag aactttctac agatacattt 1380
tttacagggt attttcattg tgttattgac atccatgtct ctcgtaaaac agatggccca 1440
aagtaatgaa tcatgtggct gtaccttctc cacataaatg ggatggataa ttatcgtata 1500
ttaagatgtg attctctttt ttatccttaa tgttaatcta cttaacctgg cccctctaa 1560
catgagtcga taaatgttgt cctactcacc ggtggtttca atggctaatt agaatgtgtt 1620
atgtgatttc tgctgcagaa ggcagtgtga ttgtaacaaa aacaatgcgg cttccccctt 1680

```

914

```

tcgtacttca tttgtgttct cttaaaatag agtttgaaca aatattttta aggtgcaaaa 1740
taccattaga aaatactatt tgaaatggac attatcgcat tatcttggca taatggccag 1800
aaaatattgt attgcttggc agaaaagaaa ataaggtcta aaggaaagta gcacattagc 1860
attgatggct gttcatttca ccaggtataa gcaagtgcag tgtacaaaga agtatattct 1920
gaatacatta tttccattca tttagcacia ataaatcatt tggtttcact ttgmagtga 1980
aaaaaaaaa aaaaaaaaaa aaaaaaa 2007

```

<210> 1472

<211> 400

<212> DNA

<213> Homo sapiens

<400> 1472

```

acagagcaag actccatctc aaaaaaaaaa aaaaaagact taacagagca tttcacgggg 60
aagggccatg agggaaacatc accygggtga tggtaacatt ctgtatcttg ataaggattt 120
gagttataca agtatataca tctgtcaaaa ttcaaagaat gtacactcaa gatctgtgca 180
tttcattata tgtaaagtgt acmttaaaat gttgtaaaaca aatattgaac aaatatacgc 240
atgctaaagt atttaagagg aagtactggt gtctgcaaaa caaaaatttt ttttccattt 300
tctgtggtaa aatatacata atataaatgt attattttta gtgtacaatt cagtggcatt 360
aaatacactc agaaagttrm aaamaaaaaa aaaaaatttc 400

```

<210> 1473

<211> 1278

<212> DNA

<213> Homo sapiens

<400> 1473

```

tcgacccacg cgtccgcatg gagcacctgg agtgttctgt ctggaatgct ggctgggagc 60
cttctcctgg catttgaacg aggggcagct gtgtcctctg tttgccgtgt aaagaaaaga 120
ggacagagct cagaggagat gaaccccagc agaaagggtt gcttgaccag caggagagaa 180
gataaccaag aggggtctgtg ggtgtctctt ctgagctaca ccagtttcca ggttacctgg 240
gaccatggat aactctcaga tcagcaactt gtcagttgat ttccaagctg ctgttggtctg 300
gactcagact cagcagggag cacctgggag agccctgtgc tgcgggctgg actccggccc 360
atctcgctga ttactcttgc ttttgctccc cagtgtgtcc tcaagaggtc agagcctgct 420
tgttgtttct tcatgaccac gggaggaggg gcaccaacat gaggggtgcta gcactctccc 480
agtgggtggc tcccagggct ggggaaaccc tgggggaggg gttgggacag ggacctctgt 540
cgcttgctgc cactgcctgg gtcaactgcc tggcaaggct ggccgctcgt gctcagaaaag 600
ctgaggcctt acctgccttc tcctctcacc cagcgcccat gtaaggacac atctgarttg 660
gcattctgtg tctgctcttg arctactcgc atgataagtc tttgttgtcc tgtgggatgt 720
caccggttca tgctgaagag aaattgtaaa ggactccttt gcctgctcag gccccatggy 780
ctctgtcatg ttttgcctcc gtcccttttg garcacagca gcagtgggct ggctggactg 840
tgcaggcgag gttcaaggat gargtacagt tgtgtgaaag gtgagcctgc tggaccgggg 900
agctttcctc aaggcctccg cctggctatg atggcgcttag gggtgagggg aagcttcctc 960
caaaatgcac agtacttggg tgtcaagatg atgttgctgc tctcaggatg agtcactctc 1020
caccactgac ttccctttgat gttctgagct cagcctggag tctgamctgg gactatagca 1080
cttgttctcc caaggtaagg ctggcggsca aaccagtgcc gcacacctga acctgctcct 1140
tggcagarat gaaggcgctc atgtttcgta gccactcaac acccatggac aatttggctc 1200
cttgtwaaga ctwakgcatg cctttgaact gacttacttg aaatataatt gskccyattt 1260
tgctccaaag aacaatgg 1278

```

<210> 1474

915

<211> 475

<212> DNA

<213> Homo sapiens

<400> 1474

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gaattcggca cgagaaagggc aggacctcga ggcgcgggccc cgcgagggtga ccggagtcac 60
agttcccgcga ggcggcgaca gcagagcgcc cactgcctcc agcagattaa tattaagatt 120
ggaagtttgt gtcttttctt ggatattgga aattgaatgt aatggcaaca gaatttataa 180
agagttgctg tggaggatgt ttctatgggtg aaacagaara acacaacttt tctgtggaaa 240
gagattttta agcagcagtc ccaaatagtc aaaatgctac gtatctctgt acctccattg 300
acttctgttt ctgtaaagcc tcagcttggc tgtactgagg attatttgct ttccaaatta 360
ccatctgatg gcaaagaagt accatttggtg gtgcgcaagt ttaagttatc ttacattcaa 420
cccaggacac aagaaactcc ttcacatctg gaagaacttg aaggatctgc aggag 475
```

<210> 1475

<211> 442

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (430)

<223> n equals a,t,g, or c

<400> 1475

```
cgccatttttc cccacagggg cgaggaggcg gctttgggttc tcccgggtggg cttgccggag 60
tgcgttctgc agaccagaag ggctttgtct ggcgattgct gaatgctcaa tagcagcctg 120
ctgggagggga agtcgaaggg agaaatagga cagaaagaga gacctgacct ctccctggag 180
gctctcagtg tcggccgagg cccttgggtct tgctctaggg ctctgcattc ccgagagctg 240
ctgtatgccg gggattggct tccaagcctg cctgagcttc tccagtctcc cgggcatcgc 300
catgcggtgg gaggggtgagc ctctctctcc tgctgaaatt ccggcggtct ggcaaccggc 360
cgggggggtct tggattcctc ggggagacac cactgatgct ttgtgggttc acgtaatttg 420
gatttaaaan ttgaaggcgt ca 442
```

<210> 1476

<211> 1019

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (42)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (898)

<223> n equals a,t,g, or c

<220>

<221> misc feature

916

<222> (931)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (973)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (995)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1004)
 <223> n equals a,t,g, or c

<400> 1476
 tccggtaccg gtccggaatt cccgggtcga cccacgcgtt tntaaaaacc acgtttcttt 60
 gttgagctgt gtcttgaagg caaaagaaaa aaaattttcta cagtagtctt tcttgtttct 120
 agttgagctg cgtgcgtgaa tgcttatttt cttttgttta tgataatttc acttaacttt 180
 aaagacatat ttgcacaaaa cttttgttta aagatctgca atattatata tataaatata 240
 tataagataa gagaaactgt atgtgcgagg gcaggagtat ttttgattta gaagaggcct 300
 attaaaaaaa aaagttgttt tctgaactag aagaggaaaa aaatggcaat ttttgagtgc 360
 caagtcagaa agtgtgtatt accttgtaaa gaaaaaaatt acaaagcagg gggttagagt 420
 tatttatata aatgttgaga ttttgcacta ttttttaata taaatatgtc agtgcttgct 480
 tgatggaaac ttctcttggtg tctgttgaga ctttaaggga gaaatgtcgg aatttcagag 540
 tcgcctgacg gcagagggtg agccccctg gagtctgcag agaggccttg gccaggagcg 600
 gcgggctttc ccgaggggcc actgtccctg cagagtggat gcttctgcct agtgacaggt 660
 tatcaccacg ttatatattc cctaccgaag gagacacctt tccccccctg acccagaaca 720
 gccttttaaat cacaagcaaa ataggaaagt taaccacgga ggcaccgagt tccaggtagt 780
 ggttttgcct ttcccaaaaa tgaaaataaa ctgttaccga aggaattagt ttttctctt 840
 cttttttcca actgtgaagg tccccgtggg gtggagcatg gtgccccca caagccgnac 900
 ggctggtgcc cgggctacca gggacatgcc ngagggtctg atgacttgct tctgcagggc 960
 gctttggtgg tgnttaactg gctaaaggtt accgntgaag gcangtgcgg taactggcc 1019

<210> 1477
 <211> 857
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (820)
 <223> n equals a,t,g, or c

<400> 1477
 tgaaatgccg cttattcagt tttaagtact gacctgctaa gtaactagta attccagact 60
 ccctagaaga ggttgttctc tttttcccta atcataatcc ccacttgcta aaaccaaatt 120
 catctaagcc atctattttc tgcaggatac atgtaaatct tagaggatta tcccagcact 180

917

```

gagcagatga tagatcaaac agatctctct tcatagttct gtggatgaaa aaacagtatt 240
tacacataat ctgtattatt cacattgccca ggctaaatct tckggaycat tgktacycyt 300
cygttttttg tatagttgta acagagtaty ctttaaatac atttttatgg catgcctatt 360
atgtacaaaa caccacaaag cttatgtagg taagtgatac ataggccctt acctcaagga 420
gcttactgtc tgaacagggg agaggtgtgg tgaaggatgg acaaattata tgtatttgta 480
agagtatata atttatggta aaacaatttc aagaaaggat taaaccatgt gttataatgt 540
ttcaaagaag ggagagatta taaaccactg gggtaaaagg ataggcttct tggaggaagt 600
gacatttgag atatatcttg gatgaccgat cagattccca tagaaggagt ctgagaaaag 660
ggcattccat gtagaaggaa tgacaagagc aaagacatag agagttaatt agaaaatgct 720
tgtcatttat ttcataattc gggggaaatt attttgtttt ataacacttt taaaaatat 780
ttagctttgc agttcctgac cccttaatgc ctgacccttn caagcaacca aagaaccagc 840
ttaatcctat tggttcc 857

```

<210> 1478

<211> 2771

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<400> 1478

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atgcaaatga agacatgtat ccataagaag gagtgctctt catcaactaa tagagcacct 240
accacagtgt catacctggg agaggtgagc aattcatatt caaagggttg aaagtgtttg 300
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ccatttttat ttctgcctgg cttggtcacc tctgtaaaagg tttaacttag tgttgtcaag 480
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ggccttccca gcatttgact gttcattgca tagaatgaat taaatatcca gttacttgaa 660
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attggctctt tctcaaagt cctgccttgc tagactgtta gctctttgag gacaggggact 1560
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918

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atttggttcaa tgaatgaatg aatgtcttct aaaagactcc tctgattggg agaccatata 1680
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ggacatatta tctactatga acattttact gtgagactct ttattttgcc ttctacttgc 1800
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ggaaacacta ataaaaacca cagagaccag cctggaaaaa aaaaaaaaaa aaaaaaaaaa 2760
aaaaaaaaaa a

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<210> 1479

<211> 2065

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1984)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2040)

<223> n equals a,t,g, or c

<400> 1479

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gtcgagctct tagttccaaa ggattaaaaat ccagtttaat agcccgattg acaaaacagc 180
ttaaagtaga ggaacaaaaa gaagaacaga aggagttaga gaaatctgaa aaagaagagg 240
atgaggatga tgataggaaa tctgaagacg ataaagagga agaagaaagg aaacgtcaag 300
aggaaataga acgccagcgt cgagaaaagaa gatataattt gcctgatgaa ccggccatca 360
ttgtacatcc aaattgggct gcaaaaagtg gcaagtttga ttgtagcatc atgtctttga 420
gtgtcctatt ggactacaga ttagaggata ataaagaaca ttcatttgag gtttcattgt 480
ttgcggaact tttcaacgaa atgcttcaaa gagatttttg tgtccgtata tacaaatcat 540
tactgtctct tcctgagaaa gaggacaaaa aagaaaagga taaaaaaagc aaaaaagatg 600
agagaaaaaga taaaaaagaa gaaagagatg atgaaactga tgaacccaaa cccaaacgga 660
gaaaatcagg cgatgataaa gataaaaaag aagatagaga tgaaaggaag aaagaagata 720
aaagaaaaaga tgattctaaa gatgatgatg aaactgaaga agataacaat caagatgaat 780
atgaccctat ggaagcagaa gaagctgagg atgaagaaga tgatagggat gaggaagaaa 840

```

919

```

tgaccaaacg agatgacaaa agagatatca acagatactg caaggagagg cccctctaaag 900
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kttattttga tcaaagtcac tgtggttacc ttcttgaaaa ggatttggaa gaaatacttt 1020
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tccgtgaatc ttgcttttac cggaaattaa cagacacctc aaaagatgaa gagaaccatg 1140
aagagtctga gtcattgcag gaagatatgc taggaaacag attattactt ccaacaccaa 1200
cagtaaagca ggaatcaaag gatgtggaag aaaatggttg cctcattgtg tacaatgggtg 1260
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agaaggataa tgtaaagaat gaagacaaag atcaaaaatc caaggagaat ggtgccagt 1620
tatgataaaa tccatgtagt gatgaggaat ggtgttaaat aatgtaatat ataaaaatca 1680
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ttcaaagatg gtataaagtt ttatgaatgt gagtttctgc ttttgaaaat tgcttgtaat 1800
tcctagcctt caaattatta aacactcctt gagtgaaata attttgcatt gcaaagtgtt 1860
ttaggatgaa ctttgktata gttttaactc caataamgtt catcagttta attgactgta 1920
gtatttaatt accaaatttc ttttattaaa atgcctagaa atttttaatt tatagaatta 1980
ttanggttta aaaattttta gtctctggtt aaaattcagt caaaatcata aaatacatgn 2040
gcttaaattt tgcaggtttt tgaac 2065

```

<210> 1480

<211> 720

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (602)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (618)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (642)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (659)

<223> n equals a,t,g, or c

<400> 1480

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gaaaaacaag ctgagatcct ggaatatgca tatcatggac agatcgccat tgttgccccc 60
gaagcccttc tagcagggca caattatacg ttgaagatag agtactcggc aaatatatct 120
agttcttatt atgggtttta tggcttctcc tacacagatg aaagtaatga gaaaagtac 180

```

920

```

tttgcagcaa ctcagtttga acccctggca gcaagatctg cttttccttg ttttgatgaa 240
ccagcattta aagccacttt tatcatcaag atcataaggg atgagcaata caccgcttta 300
tcaaatatgc ctaagaagtc atcagtcggt ctagatgatg gacttggtca ggatgagttt 360
tctgagagtg tgaagatgag cacttacttg gttgctttca ttgtgggaga gatgaagaac 420
ctgagtcagg acgtaaatgg aaccctgggt tctatatatg ctgtaccaga aaagattggg 480
caagttcatt atgccttggg aacaactgtg aagcttcttg agttttttca aaactacttt 540
gaaattcagt acccacttaa gaaattggat ttggtggcta ttcttgactt tgaagcaagg 600
ancaatggaa aattgggntt ttgctcacct tccgaaaagg anacacttct gtttgacant 660
tacacttctt ccatggcgga taaaaaagct ggggtgactaa aatcatttgc tcattgaact 720

```

<210> 1481

<211> 1167

<212> DNA

<213> Homo sapiens

<400> 1481

```

cggcagcgac agcggcagcg tcagcgctcag cggcgctgag ttttgtctcc cgggcegtct 60
gggcgcgcgc ggggtgtccca gaatgaaata tgactgagga ctctcagaga aactttcggt 120
cagtatatta tgagaaagtg gggtttcgtg gagttgaaga aaagaaatca ttagaaattc 180
tcctaaaaga tgaccgtctg gatactgaga aactttgtac ttttagtcag aggttccctc 240
tcccgctccat gtaccgtgca ttggtatgga aggtgcttct aggaatcttg cctccacacc 300
acgagtccca tgccaagggtg atgatgtatc gtaaggagca gtacttggat gtccttcatg 360
ccctgaaagt cgttcgcttt gttagtgatg ccacacctca ggctgaagtc tatctccgca 420
tgtatcagct ggagtctggg aagttacctc gaagtccctc ttttccactg gagccagatg 480
atgaagtgtt tcttgccata gctaaagcca tggaggaaat ggtggaagat agtgctgact 540
gttactggat caccgcagcg tttgtgaacc aattaaatac caagtaccgg gattccttgc 600
cccagttgcc aaaagcgctt gaacaatact tgaatctgga agatggcaga ctgctgactc 660
atctgaggat gtgttcccg ggccecaaac ttccttatga tctctggttc aagaggtgct 720
ttgcgggatg tttgcctgaa tccagtttac agagggtttg ggataaagtt gtgagtggat 780
cctgtaagat cctagttttt gtagctgtcg aaattttatt aacctttaaa ataaaagtta 840
tggcactgaa cagtgcagag aagataacaa agtttctgga aaatattccc caggacagct 900
cagacgcgat cgtgagcaag gccattgact tgtggcacia acactgtggg accccgggtc 960
attcaagctg aacgcacccg ctggttgtgg accgtctgcc aggcaccaca gtgagcattg 1020
tgttcttggc atgtgatctg ggaaactgat tgaataatac acttttcttg ctttggtgct 1080
caaagtgggt tttttccccc aataaaatta ttaattgaa atgcctgggt ttgctgtggt 1140
ggcgagcagc atcttgcagt tacatag 1167

```

<210> 1482

<211> 2129

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

921

<400> 1482

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cgaanttcgg agcgnccggt actggttga aa gcgagacatc accagataga gataagaaaa 60
aagagcagtc agaagtatct gtttctccta gagcttcaaa acatcattat tcaagatcac 120
gatcaaggtc aagagaaaga aaacgaaagt cagataatga aggaagaaaa cacaggagcc 180
ggagcagaag caaagaggga agaagacatg aatccaaaga taaatcctct aagaaacata 240
agtctgagga acataatgac aaagaacatt cttctgataa aggaagagag cgactaaatt 300
catctgaaaa tggtaggac aggcacaaac gcaaagaaag aaagtcatca agaggcagaa 360
gtcactcaag atctaggtct cgtgaaagac gccatcgtag tagaagcagg gagcggaaga 420
agtctcgatc caggagtagg gagcggaaga aatcgagatc cagaagcaga gagaggaaga 480
aatcgagatc cagaagcagg gaaagaaaac ggcgatcag gtctcgttcc cgctcaagat 540
caagacacag gcataggact agaagcagga gtaggacaag gagtaggagt cgagatagaa 600
agaagagaat tgaagagccg agaagattta gcagaagttt aagccggact ccaagtccac 660
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aagaaatagc tgcagcagct gcagctactg gaggttctgt tctcaatgtt gctgccctgt 840
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ttataaggga cagacttggt attcagtatt tgtcaaatat tacatgtgtt attcaggaga 2040
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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2129

```

<210> 1483

<211> 533

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (39)

<223> n equals a,t,g, or c

<400> 1483

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ggtcgaattc cgggtcgacc acgcgtccgt ttgcttgtna ctatttttca ttgaagcatg 60

```

922

```
cgcttaccta tgetgattct tactaaaagc ataggctggg gtattttattg gcgaaaggaa 120
atgtgtagtg tgggctggac tgttggtgga ggctggcttt ttagccact tgctatacat 180
gctgccaatg gatttaagac ttgaaatgtt gaaagttgag tgggaattatt tccctcctaa 240
aacatttatt tacagtactc ctctctaccc ctaaggttgg gctctgcctc agaggagtga 300
gttttttttt ttttttctat aaagtttaca ttgtcttact atttattgar tgaatyctctg 360
gtcattgcct atgcaaatat aakaaatctg gctttaaata ttagtcagtt tcatggctat 420
gactagattg ktttcttgka taactaaata cctgkataaa atgaactaat gttttctctc 480
ccctccctac cccttcctaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 533
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<210> 1484

<211> 901

<212> DNA

<213> Homo sapiens

<400> 1484

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cctcatatga tacaagaaga cccagcttct ttgtctctac cctgtaggca ctgggtagac 180
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aattggagga aaattttaat gcagatgaat cgagaaggaa taaaagccat tagaaattct 780
gggaaaacaa gaaatataga agaaagtcac ggggctgggt gtggtagctc acgcctgtaa 840
tcccagctac tcaggaggct gagcaggaga atcgcttgaa ctggarargt ggaggktgtg 900
a 901
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<210> 1485

<211> 782

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (691)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (746)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (762)

<223> n equals a,t,g, or c

923

<220>
 <221> misc feature
 <222> (772)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (780)
 <223> n equals a,t,g, or c

<400> 1485
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 gaactagtgg atcccccggt ctgcaggaat tcggcacgtt tccccctgtt ccttggagtc 120
 agtatatttga gtccatggaa gatgtagaag tagagaattg cttggaccgc ggaggcaaag 180
 gttgcagtga gtggagatca tgcattgccac tgcactccag cctgggcgac aagagcaaga 240
 ttctgtctca aacaaaacaa aacaaaacaa acaaaaaact tttaaccagg atttttttaa 300
 aaaatagtaa actctaccta acacagtatt tctcatttta accatgtgga aatgaacagt 360
 tcagtggcat taattacatt cacaaggctg tggaccacac cactatctat accccaactt 420
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 aagctctatt ctgcttttgg tctctgaatt tgccattttt aggtagctca taggtggaat 540
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 catgttgtaa gtgtgtatca aaattctgtt ccatttttat gctgaatatt ttattaaatg 660
 catattccat attttgggta gccattctcc ngaacggaca tctgggggtt gcttccacct 720
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 tt 782

<210> 1486
 <211> 891
 <212> DNA
 <213> Homo sapiens

<400> 1486
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 tccctcattt tgctctgctt gtgcaatttt ttccaccctc catctctgtc aaacgtaagc 180
 cttcctgacc tctaagacct acctttgtca tgtaccttta ccctcaggca aggagcaatc 240
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 tgaatcatag ggaacagcat gtgtagtgga atgaacacag gcctctgaat ccaagatacg 360
 agttttaaate ccagcctttgg aggtgggttac ttaaaagtctc agtgccttca ttcttcttyc 420
 tatataaagt agatattaca atatctaact tacagagtca ttgggagcta tacatgcagc 480
 gattgggtaa agcacctggc acatggcaag cgattagcaa atgctgggta cttctacttc 540
 tttctcttcc cttttccag tctatcataa ttctcctgar arcaggcacc atgtcttatt 600
 tacccttgta tttcccacag tacttcccat agtgarttac ccttagtaaa tacycagtaa 660
 gttgaattga atttaaatta mctgtaaagtc ttaaaatgtg ggattaaatt aagaatataat 720
 tgccttgtaa ataccgaag gtctattgat ggatgaatgg ataaacaaaa tgtgggtatac 780
 acataatgga atattattca gccttaaaaa ggaatgaaat tctgacatgt gctacaatat 840
 gatgaacctg gaagacatta tatgtgaaat aagccagaca gaaaaggaca a 891

<210> 1487
 <211> 1181

924

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (617)

<223> n equals a,t,g, or c

<400> 1487

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ataaatatac gggaagcagc agagggcttc cctgtctagt gtgtgatcct aactaaaggc 120
agctctcttg gacagccttc ccctggatta ggtcacatac acctgggtggc caagcctctg 180
ctgggtccca aatacacacc cgagtcctgc caaagaaagg agatttttaa aaagcacaga 240
caaattgtat gcaagtggaa aatacccata ggcctagaca gctgtggagg gaagacctcg 300
tgggtacctg gaggtcgcca gagctgggag ctctgcagggt atgagtcagg gaaggctcag 360
agacaagcag aatctctcta tggagacaac ttgcagtgcc ttttaggttt tccaaataac 420
ctcggagttc agagcattgg gtttttttct cccctcccca ccccccagaaa aataattaga 480
aaaatgttta ggagaaaagg aaagaattag atgcatcaga ataccagcta taagccaaca 540
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<210> 1488

<211> 505

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (402)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (478)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (483)

<223> n equals a,t,g, or c

<220>

925

<221> misc feature
 <222> (501)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (505)
 <223> n equals a,t,g, or c

<400> 1488
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 gaaaacaagt tgTTgctgga gcagttggag attcagcaaa ggaaagccaa ggacagccac 180
 caggagcgcc tccaagaagt ttctaagctg actaaacaac taatgctcct ggaggcaaaa 240
 acccacggcc agggaaaagga gctggcgagg aacagggaac agctggagat ttTactgtcc 300
 aaatgccaaG aactcaaaac aactcggat ggcaaaatcg cagtggaaGt tcataaatca 360
 attgtgaatG aattaaaaaG ccaattacag aaggaagaag anaaagaaag ggctgagatG 420
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 aanaacattt tgacagagca naacn 505

<210> 1489
 <211> 651
 <212> DNA
 <213> Homo sapiens

<400> 1489
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 cgccgctgcc cgctcgggc ccacagccca gcttcatggc gcacctggca ggcgcggtgg 240
 tgggggtgag catgggcctg accatcctgc ggagctacga ggagcgctg cgggaccagt 300
 gcggctggTg ggtggtgctg ctggcctacg gcaccttcct gctcttcgcc gtcttctgga 360
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 gaggctgcac agggccagggc tcgggcatgt ggtggccgcc accagggggc ttcacgtctg 480
 ccctttgtga acggacgtct cagggctgct gtgccccttg ggtgtgggtg gcctcaaagg 540
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<210> 1490
 <211> 2968
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (2961)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (2964)

926

<223> n equals a,t,g, or c

<400> 1490

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ctacccccctg tctccccac aaaggacacc ggctgggatt cggtatcgaa tcgcagttat 180
cgcagacctg gacacagagt caagggccca agaggaaaac acctgggttca gttacctgaa 240
aaagggttac ctgaccctgt cagacagtgg ggacaagggtg gccgtggaat gggacaaaga 300
ccatggggtc ctggagtccc acctggcgga gaaggggaga ggcatggagc tatccgacct 360
gattgttttc aatgggaaac tctactcgt ggatgaccgg acgggggtcg tctaccagat 420
cgaaggcagc aaagccgtgc cctgggtgat tctktccgac ggcgacggca ccgtggagaa 480
aggcttcaag gccgaatggc tggcagtga ggacgagcgt ctgtacgtgg gcggcctggg 540
caaggagtgg acgaccacta cgggtgatgt ggtgaacgag aaccggagt gggatgaagg 600
ggtgggttac aagggcagcg tggaccacga gaactgggtg tccaactaca acgccctgcg 660
ggctgctgcc ggcatccagc cggcaggcta cctcatccat gagtctgcct gctggagtga 720
cacgtgcag cgctggttct tctgcccg cgcgccagc caggagcgt acagcgagaa 780
ggacgacgag cgcaaggcg ccaacctgct gctgagcgcc tccccgact tcggcgacat 840
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gtgatttgcg attactttta agctcacctt tttcttccc ctctctgttc gctgctgtca 2820
gcataatgat tgtgttcctt ccctatggga tccatctgtt ttgtaaacia taaagcgtct 2880

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927

gaggggagtgt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2940
 aaaaacaaaa aaaaaaaaaa nagnagag 2968

<210> 1491
 <211> 529
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (373)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (464)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (484)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (529)
 <223> n equals a,t,g, or c

<400> 1491
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 tccccatttg aattgttccc tagagtttac acagttgtac cttattacca gtttaaattgg 120
 atatctcagt taataatttt caatagtga actatcaaat atcagagatt tacttccttt 180
 tagttactat gaaaagcaca ttacttttg agagcaactg taatacacct aaaatttagag 240
 caaccaaagg catgtatgga gcatttttta atttaaaaaa ttgcattttg tttctcatac 300
 cttattttaa acattaagaa gtaaatgtct ttagtttttg agtacatttt tatatgaata 360
 ggaaacatgc tgntttcata atccagkctt ttgatgtgtg tgaaatgaat ttgtgtggag 420
 cgttatgtga atttttatga acttatcttt tattggtgat ctanaaatgc ttgggatacc 480
 taanaattcc agacctcagt ttcttatggg ggataacaat ggatttggn 529

<210> 1492
 <211> 1225
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (59)
 <223> n equals a,t,g, or c

<400> 1492
 gtgcactcta acgatctctt tgccatcttg ttttaattctg acagttctca gacatagana 60

928

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aaaaaggtaa ctcatgcatg tactaccttt tttctctatg tctgagaact gtcagattaa 120
aacaagatgg caaagagatc gtttagagtgc acaacaaaat cactatccca ttagacacat 180
catcaaaaagc ttatttttat tcttgcaactg gaaggaatcg taagtcaact gtttcttgac 240
catggcagtg ttctggctcc aaatggtagt gattccaaat aatggttctg ttaacacttt 300
ggcgaaaaat gccagctcag atattttgag atactaagga ttatctttgg acatgtactg 360
cagcttcttg tctctgtttt ggattactgg aatacccatg ggccctctca agagtgtctg 420
acttctagga cattaagatg attgtcagta cattaaactt ttcaatccca ttatgcaatc 480
ttgtttgtaa atgtaaactt ctaaaaatat ggtaataaac attcaacctg tttattacaa 540
cttaaaaagga acttcagtga atttgttttt attttttaac aagatttctg aactgaatat 600
catgaaccat gttttgatac ccctttttca cgttggtgcca acggaatagg gtgtttgata 660
tttctttcata tgtaaggag atgcttcaaa atgtcaattg ctttaaaactt aaattacctc 720
tcaagagacc aaggtagatt tacctcattg tgtatataat gtttaattt tgctagagca 780
ttctccaggt ttgcagtttt atttctataa agtatgggta ttatgttgct cagttactca 840
aatggtactg tattgtttat atttgtaccc caaataacat cgtctgtact ttctgttttc 900
tgtattgtat ttgtgcagga ttcttttaggc tttatcagtg taatctctgc cttttaagat 960
atgtacagaa aatgtccata taaattttcca ttgaagtcga atgatactga gaagcctgta 1020
aagaggagaa aaaaacataa gctgtgtttc cccataagtt tttttaaatt gtatattgta 1080
ttttagtaaa tattccaaaa gaatgtaaat aggaaataga agagtgatgc ttatgttaag 1140
tcctaacact acagtagaag aatggaagca gtgcaataa attacatttt tccccaaaaa 1200
aaaaaaaaaa aaaaaaaggg cggcc 1225

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<210> 1493

<211> 2298

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2291)

<223> n equals a,t,g, or c

<400> 1493

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gaattcggca cgagccactg ggacatgtcg ctgccgctca tcgtgactct gagcactatc 60
tccatcatcc tcctagcggc catgatcacc atcgccgtca agtgcaagcg cgagaacaag 120
gagatccgca cttacaactg ccgcatcgcc gagtacagcc acccgcagct ggggtgggggc 180
aaggggcaaga agaagaagat caacaaaaat gatatcatgc tgggtgcagag cgaaagtggag 240
gagaggaacg ccatgaacgt catgaacgtg gtgagcagcc cctccctggc cacctccccc 300
atgtacttcg actaccagac ccgcctgccc ctcagctcgc cccggctcgga ggtgatgtat 360
ctcaaaccgg cctccaacaa cctgactgtc cctcaggggc acgcgggctg ccacaccagc 420
ttcaccggac aagggactaa tgcaagcgag acccctgcca ctcggatgtc cataattcag 480
acagacaatt ttcccgcaga gcccattac atgggcagca ggcagcagtt tgttcaaagt 540
akctccacgt ttaaggaccc agaaaagacca gcctgagaga cagtgggcac ggggacagtg 600
atcaggctga cagtgaacca gacactaaca aaggctcctg ctgtgacatg tctgttaggg 660
aggcactcaa gatgaaaact acttcaacta aaagccaacc acttgaacaa gaaccagaag 720
agtgtgttaa ttgcacagat gaatgccgag tgcttggtca ttctgacagg tgctggatgc 780
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aaccttattt aaaagccaaa cgtgccctga gccctctcct ccaagagggt ccctcagcat 1020
caagcagccc aaccaaggcg tgcacgcagc cttgcacctc aacaaaaggc tccctggatg 1080
gctgtgaagc aaaaccagga gccctggctg aagcaagcag tcagtacttg cccactgaca 1140

```

929

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gtcaatatct gtcacctagt aagcaaccaa gagaccctcc cttcatggct tccgatcaga 1200
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ctgttcttga gcagcttgac caccccaaca gggatctggg cagagagtct gtggatgcag 1320
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gatttaaaaa tgatccctcc tggtgataac mcattttaca gggatgaaga aagaccaatg 1500
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aatgatgctt aaagagaaaa gaaaaaaaaa gagaagaaaa aggagagatg aaaaaggagg 1680
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aacacatatt tgtggtaaac atttctgtat aaagttacct gacacacata taaacacaag 1980
gaacattcca tatcattagt cgaaaaacaaa aacaaaaaaaaa aaaccttygg tcatttgtaa 2040
kacatctcat gtcataataa agttaaatgt aaaaagatac agtccatttt gtcctgcaca 2100
cacgtagact aattcacgct attaaagaag aagaaaactt aaagatttaa aatgcctatt 2160
tagcatttta gtgtccaaca aagattttaa caatgatgaa tatgttttaa atttgacata 2220
gaaaagttct aaaaaatagt taccattgag tggtaaagatt cagagaaaaat taacttgatt 2280
aatatgtttt naaaaaaa 2298

```

<210> 1494

<211> 389

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (102)

<223> n equals a,t,g, or c

<400> 1494

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ctagaactag tggatcccc gggctgcagg aattcggcac gngccccgcg gagccgctcg 120
agaactccgc cagcgagtcg tctgacacgg agctgccaga gaaggagcgc ggcggcggaa 180
cccaaggggc ccgaggacag tggtgcgggg ggcacgggct gcggcgggcg agacgaccca 240
gccaaagaaga agaagcagcg gcggcaacgt acgcacttca caakccagca gttgcaagag 300
ctagaggcca cgttccagag gaaccgctac cccgacatga gcatgaggga ggagatcgcc 360
gtgtggacca acctcaccga gccgcgcgt . 389

```

<210> 1495

930

<211> 1400

<212> DNA

<213> Homo sapiens

<400> 1495

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accagcttgg agacaacatg tggttcttga caactctgct cctttgggtt ccagttgatg 120
ggcaagtgga caccacaaag gcagtgatca ctttgcagcc tccatgggtc agcgtgttcc 180
aagaggaaac cgtaaccttg cactgtgagg tgctccatct gcctgggagc agctctacac 240
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ccagtgtcaa tgacagtggg gaatacaggt gccagagagg tctctcaggg cgaagtgacc 360
ccatacagct ggaaatccac agaggctggc tactactgca ggtctccagc agagtcttca 420
cggaaggaga acctctggcc ttgaggtgtc atgcgtggaa ggataagctg gtgtacaatg 480
tgctttacta tcgaaatggc aaagccttta agtttttcca ctggaattct aacctcacca 540
ttctgaaaac caacataagt cacaatggca cctaccattg ctcaggcatg ggaaagcatc 600
gctacacatc agcaggaata tcwrtcactg tgaagagctg atttccagct ccagtgtctga 660
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agttgctctt gcagaggcct ggtttgcagc tttacttctc cttctacatg ggcagcaaga 780
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aagaactgaa aagaaagaaa aagtggrratt tagaaatctc tttggattct ggtcatgaga 1080
agaaggtaat ttccagcctt caagaagaca gacattttaga agaagagctg aaatgtcagg 1140
aacaaaaaga agaacagctg caggaagggg tgcaccggaa ggarcccccag ggggccacgt 1200
agcagcggct cagtgggtgg ccatcgatct ggaccgtccc ctgcccactt gctccccctg 1260
agcactgcgt acaaacatcc aaaagttcaa caacaccaga actgtgtgtc tcatggtatg 1320
taactcttaa agcaataaaa tgaactgact tcaactggga aaaaaaaaaa aaaaaaaaaa 1380
aaaaaaaaaa aaaaaaaaaa

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<210> 1496

<211> 1484

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (464)

<223> n equals a,t,g, or c

<400> 1496

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tttgttcctg tctgccaaat cctgaacaag aagatgggtg caacaatgca ttctcagact 180
cctttgtgga ttcttgccct gaaggtgaag gccagaggga ggtggctgac tttgctgtcc 240
agccagctgt aaagccttgg gctcccttgc aggattcaga agtgtattta gcatctctag 300
agaagaagct aagaagaatc aaaggtttta atcaggaagt gacttccaag gacatgcttc 360
gaactctggc ccaagccaag aaggaatgct gggatcggtt cctccaggag aagttagctt 420
cagagttctt tgtggatgga cttgattctg atgagagcac cttnggaaca tttcaagagg 480
tggctccagc cagataaagt agccgtcagc acagaggagg tccagtatct gattcctcca 540
gagtcacagg ttgagaagcc agtggccgag gacgagccag cagccgggga caagccagca 600

```


931

```

gcagcagaac agtaaattac acacacacac acacacacac acacgccgag cagctgtctc 660
gggtccagag cgagcagcgt ggagctcagt gacagcagca gggagaaatc cactgaagga 720
aaaaacccaa atttccactc cacaaagaaa acagctgcaa gccccaggg acttacctgg 780
ggctggcatg tgtgactgtc tcggatgaag tgactgacct agtgcacact ggatcaaaat 840
getgctttcc tctgtgtctc acagcttggc tgagctctgt ctctgcaggt tagaagtctg 900
ctaaagatca aatgtgaaaag tacttggaga aactgaggcc tcttatgtgt aatgtgtaag 960
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tctcaacgga aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa 1484

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<210> 1497

<211> 2192

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2174)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2190)

<223> n equals a,t,g, or c

<400> 1497

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ccaggatctc tgggctgaaa tttgttcctg tctgccaaat cctgaacaag aagatggtgc 180
caacaatgca ttctcagact cctttgtgga ttcttgccct gaagggtgaag gccagagggga 240
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gttcttttat atatatttat atatatatat aaaaattggg tcttagattt tgatttacta 1080
gtgtgacaaa ataactacat cctaatagaa atcaagtttg atatgtttgt tttgaaagta 1140

```

932

```
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```

<210> 1498

<211> 685

<212> DNA

<213> Homo sapiens

<400> 1498

```
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ggcgcgtctc gtcaagcctg gagacgcggg agcagaaggc caagaaattt gtgtgattga 180
agccatgaaa atgcagaata gtatgacagc tgggaaaact ggcacggtga aatctgtgca 240
ctgtcaagct ggagacacag ttggagaagg ggcacgtgct gtggagctgg aatgaaggat 300
ttataacctt tcagtcacat cccaatttaa ttagccattt gcatgatgct ttcacacaca 360
attgattcaa gcattataca ggaacacccc tgtgcagcta cgtttacgct gtcatttatt 420
ccacagagtc aagaccaata ttctgccaaa aaatcaccaa tggaaatttt cattgatata 480
aatacttgta catatgattt gtacttctgc tgtgagattc cctagtgtca aaattaaatc 540
aataaaaactg agcatttgct taaatattag ttgcccctt ctttgaatga agacaatgta 600
cacataggcg accaggtctg ccagtagact accagcattt ctttgtgatc cttttaagag 660
attgatataa atgtcagtc gttct 685
```

<210> 1499

<211> 1049

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1027)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1046)

933

<223> n equals a,t,g, or c

<400> 1499

```

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gttaagagta agtacacaga aaaacccaaa gtgtgataac attgtaactg tgggtgtgtaa 180
gtagaaaagaa taaatgataa accaatcaaa aatagtaact acaacttttc aagaccagtc 240
agaaaaataa gataaaatta gaaacaacaa aaagttaaaa agtgggggga tgaagttaag 300
atgtagagtt tttattagtt ttttgtttgt taatgcaaac agtgttacca gggttaaaata 360
atgggttaca aaatagtatt tgtaatcctt atggtaacct caaacctaaa aacatacact 420
ggatacataa aaaataaaaa gcaaaaacct aaatcatatc accagagcaa actaccttcc 480
ctaaaggaag acaggaagaa aagaaagaag aagaccmcaa amcaaccaga aaacaaataa 540
atwacaaggc aggagtaagt ctttacttat cgataataca ttgaatggma atatggacta 600
aactctccaa tcaaaaagaca tagactggct gaatgaatgg agaaaacaag acccattgat 660
ctgttgccca caagaaacac acttaaaacta taaagacaca cataggctga aagtaaagag 720
ttggaaaagag ttattccatg ccaatggaaa ccaggaaaaa gagaaggagt attgattttg 780
atacaaaaaac tatgagacaa ataaagtcac tatacaatga waaaggggtt aatatggttt 840
ccatttgtgc cccacccaaa tttcgtgttc tattgtaatc ctcaatgttg gaggtggggc 900
ctggtgggac gtgattggat catgggggtg gatctttcat gactaattca gcaccatctt 960
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tctccanacc acccgcttgc cttggnca 1049

```

<210> 1500

<211> 1018

<212> DNA

<213> Homo sapiens

<400> 1500

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tctggaaaacc caaacctca aggatggcct ggcgcatggg ggaaccagcc tgctggggca 180
gggggctacc caggggcttc ctatcctggg gcctaccccc ggagggcacc cccaggggct 240
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cctgcacctg gagtctaccc agggccaccc agcggccctg gggcctaccc atcttctgga 360
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ctgattgtgc cttataacct gcctttgcct gggggagtggt tgccctcgcat gctgataaca 480
attctgggca cggtgaaagc caatgcaaac agaattgctt tagatttcca aagagggaat 540
gatgttgccct tccactttta cccacgcttc aatgagaaca acaggagagt cattgtttgc 600
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agtgggaaac cattcaaaat acaagtactg gttgaacctg accacttcaa gggtgcagtg 720
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```

<210> 1501

<211> 2031

<212> DNA

<213> Homo sapiens